ONE CRYSTAL'S DANCE: THE STAR MOTHER.

GEOMETRIC KEYS TO THE RESONANT SPIRIT OF BIOLOGY.

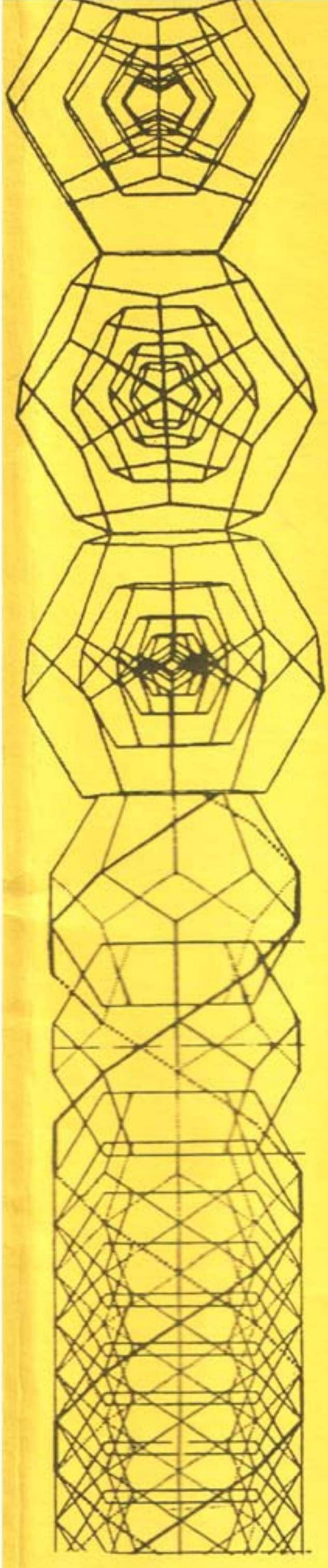
Plaintiffs' Exhibit
Case No. 6:94cv7934
19

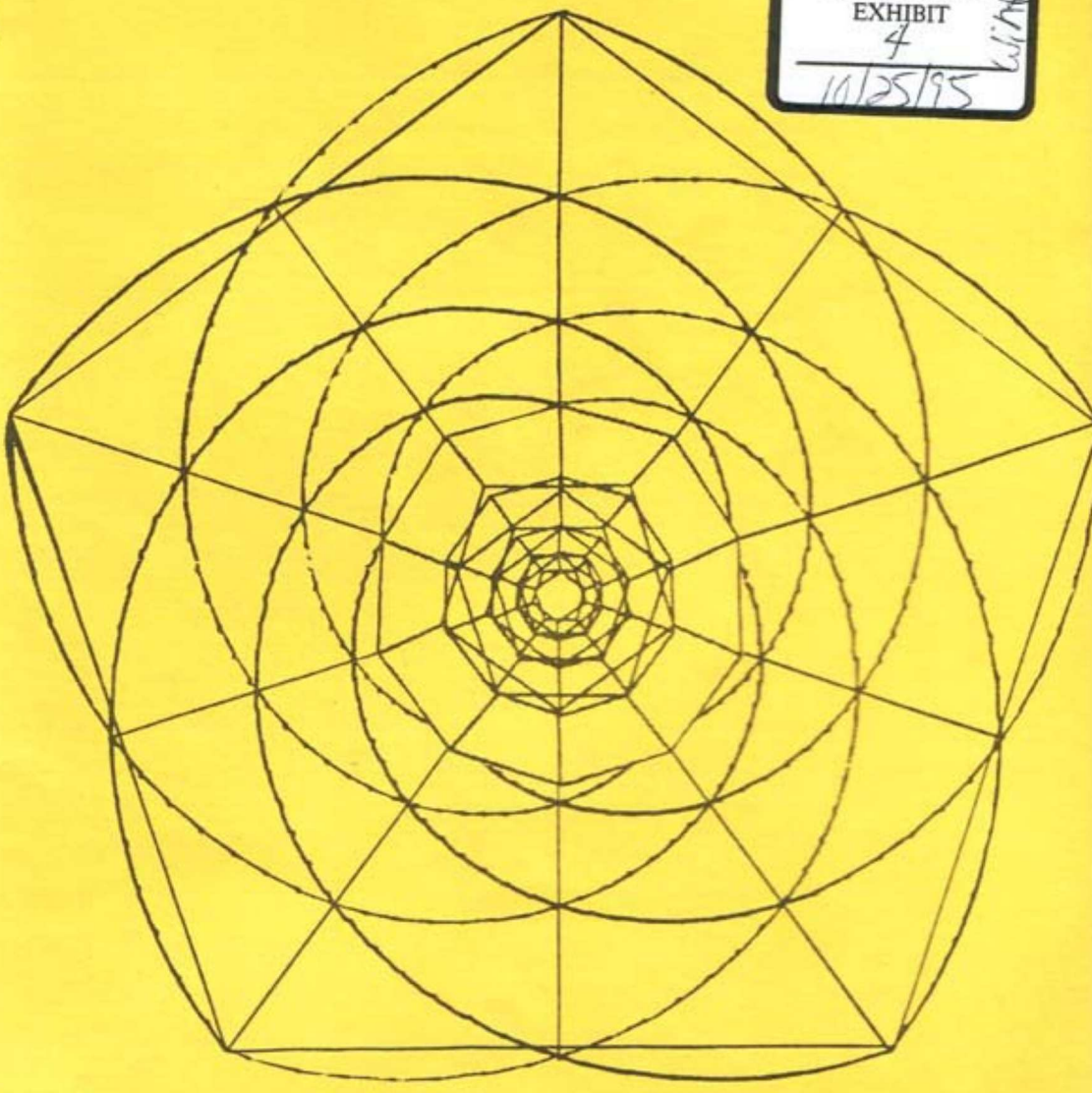
FROM

DAN WINTER

CRYSTAL HILL FARM PUBLICATIONS

DEPOSITION EXHIBIT
4
10/25/95





STAR MOTHER

TABLE OF CONTENTS

Prologue p 1.

Star Mother, The kit Description p 2.
Assembly Instructions p 3.

A Look Inside Star Mother p 4.
(A Rich Geometrical Appreciation)

The Shape Significance of Genetic Material As A Wave Path For Frequency Signature, And An Introduction To The Frequency Signature Identity of Cell Metabolism, Emotion, and Language. (Illustrated) p 16.
(Uses an appreciation of nested geometry to understand wave energetics leaping scales: cell, emotion, language, planet.... shape.)

Word Star.... (L)iterate Waves p 41.

Taking Comfort in the Role of Mind Among Waves p 41.

The "Matter" of Vision p 43.

Crystal Structure: Key to An Instrument That Heals p 50.

To Be Crystal Clear, Techno-Logos p 52.

Intention & Imagination, A Biophysical Analysis p 60.

Kundalini, A Deeper Biological Understanding p 63.

Collective Conscious, A Mind Being Born Invites Us p 69.

Postcript & Notes About the Author p 70.

PROLOGUE

These "shapely" pages are assembled in sections to accomplish several purposes:

1. Guide to Assembly of the Star Mother, Sacred Geometry model.

2. To present a sequence of suggestion and vision for appreciating the rich order in nested 3D geometry.

3. To offer you the insightfully illustrated "Shape Significance..." Paper applying geometrical nesting to wave energetics in genetics, emotion, language, and planet structure.

4. To share a unique collection of monologues relating crystal structure to mind, healing function, ecstacy, and other deeply significant areas.

5. Gentle commentary on perceived invitations to the birth of a collectively conscious mind.

... followed by personal notes on the author.

Our work on wave nesting, coherence, the body, and healing, has developed into a research project supported at Millard Fillmore Hospital & Crystal Hill Farm. Essentially, we are hypothesizing that coherence (resonance orderliness) between heart and brain - as a biofeedback learned skill- improve metabolic AND IMMUNE orderliness. We have excellent tools with which to do this work, more info as it unfolds.

This book is presented humbly with the sincere wish that you will find it JOYful to visualize and learn about matters' nest, from the inside out. If you have ideas about how to make material like this more accessible to inquisitive minds, do contact me. Sincerely, In Service.... Dan Winter

S T A R

*

M O T H E R

A KIT TO CONSTRUCT A POWERFULLY INSPIRING GEODESIC NEST

AN ELEGANT GEOMETRIC ARRAY CALLED

* THE LESSER MAZE (THEOSOPHY)
* STAR * MOTHER
* GUARDIAN ANGELS NEST

CONTAINING
TETRADRON
OCTAHEDRON
CUBE
PENTAGONAL-DODECHEDRON
ICOSAHEDRON
STELLATION TO OUTER GOLD DODECAHEDRON

ILLUSTRATING THE ELEGANT DECAGONAL NESTING PRINCIPLE OF DNA.

EVERY EDGE IS GOLDEN MEAN RATIO, TO ADJACENT EDGES,
EXCEPT WITHIN THE CUBE IS SQUARE ROOT OF TWO. (THE TETRAHEDRA ARE FORMED BY ALL THE CUBE DIAGONALS.)

236 COLOR KEYED RODS, 90 PRECISION RUBBER SLEEVE CONNECTORS, INSTRUCTIONS, AND INTERPRETIVE SUGGESTIONS INCLUDED.

THIS PROFOUND GEOMETRIC, GENERABLE ENTIRELY FROM GOLDEN MEAN SPIRALS, IS RICHLY DESCRIBED IN:

"THE MATHEMATICS OF THE COSMIC MIND" PLUMMER
THEOSOPHICAL PUB.

"CRYSTAL LIFE: THE WAY OF THE WAVES" VIDEO-TAPE
FROM CRYSTAL HILL

"ONE CRYSTALS DANCE" THE INCLUDED BOOK
ON CRYSTALLINE METAPHOR
AND THE HEALING PROCESS

A RICH AND REWARDING ASSEMBLY AND INSTRUCTIONAL PROCESS FOR TEACHING SIMPLE AND ELEGANT THREE DIMENSIONAL RELATIONSHIPS...
FOR YOUNG AND OLD.

THE STAR MOTHER

(A HOME FOR GUARDIAN ANGELS)
FROM
CRYSTAL HILL FARM
9411 SANDROCK RD
EDEN, NY 14057

INTRODUCTION:
The universe thanks you. You have chosen to nest your attention in a very nutrient rich place: the heart of three dimensional geometry. As you may soon discover, it has the potential to really enrich your capacity to hold vision in order. The more clearly you are able to imagine order, in a nest which reaches between dimensions, the finer will be your ability to weave light into the focus we physicists call matter.

Thus, one purpose of this kit is to teach by doing and seeing, natures most elegant way of focusing waves into a nest which embraces order from one scale to another. RATIO is the key. Later in the text, after the assembly instructions, we will apply this principle to one of biology's nicest pathways for storing memories: genetics.

While the richness of this model is definitely a lasting meditative moment for the maturest mind, it is also intended for children. I have had one of the most rewarding times assembling this model as a group project in a kindergarden class. All that is required is a little planning, and a careful division of little jobs. It is probably best if you assemble it once first yourself. For little people, this model is called A GUARDIAN ANGELS NEST.
You might begin by explaining that the pretty ordiliness of our best dreams and memories, stay nearest to us if we weave them the finest nest to live in.

To build your STAR MOTHER, you will probably wish to have handy:
a small wire cutters (for cutting the outer wood sticks
to exact lengths).
contact cement or glue (optional).

Begin by organizing the materials.

42 green 2" sticks (12 for octahedron.
30 for inner dodecahedron)

24 yellow 2" sticks (tetrahedra)

72 red 3" sticks (12 for cube, 60 for dodeca stellations)

30 blue 5" sticks (icosahedron)

60 yellow 8" sticks (icosa stellations)

30 gold wooden approx 9" sticks (outer dodechedron)

36 5 sleeve connectors

48 6 sleeve connectors

6 8 sleeve connectors

20 short sticks approx 5/8" (for connecting thru
rubber sleeve centers

BUILDING YOUR NEST_
A HOME FOR POLYGONS AND ANGELS
(ANGLES).

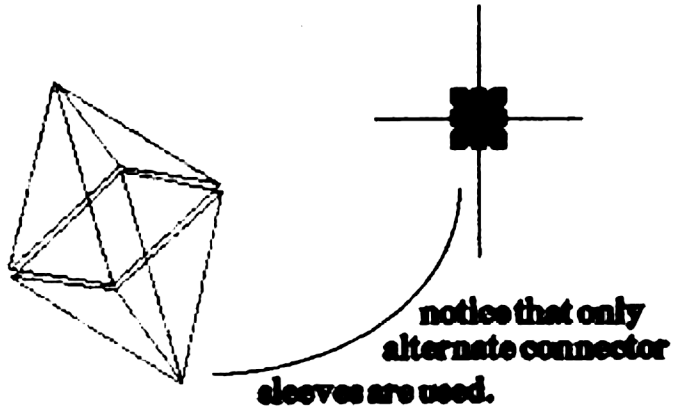
This kit is very easy to build, and can be comfortably completed in an hour or two. However it is recommended that you proceed at a gentle pace, savoring the experience; tell yourself that you would enjoy dreaming about what might fit in your new nest.

First check to see that you are not holding your breath.
then_

Use 12 of the 2" green sticks and the 6 eight-sleeve connectors to build an octahedron. An octahedron (octa=8, hedra=faces) is a four sided pyramid on top AND on bottom.

Use only every other connector sleeve on the eight-sleeve connectors so

that only four of the eight sleeves are filled. This will leave you room to add the tetrahedra later.
Check the picture:



Notice that your octahedron has 8 faces, six vertices (tips), 12 edges, AND 3 axis of symmetry (3 nice pairs of places where you can spin it between your fingers). Think about what must be the shape of an electron shell which supports 3 pairs of electrons; two directions of spin are possible at each spin axis.

Now use 24 yellow 2" sticks to complete two tetrahedron. A tetrahedron is like a three sided pyramid with four (tetra=4,hedra=faces) surfaces. Accomplish this at this point by very simply installing one 2" yellow stick into each of the now empty sleeves at the tips (not the center holes) of your green octahedron (6 sleeves times 4 empty connectors each=24).
You are effectively building a little tetrahedron onto each of the eight faces of the original octahedron. Complete each tip by placing a six sleeve connector at the top of each of the eight groups of three. Again use only alternate sleeves in the six sleeve connectors, so that every other hole is left empty.

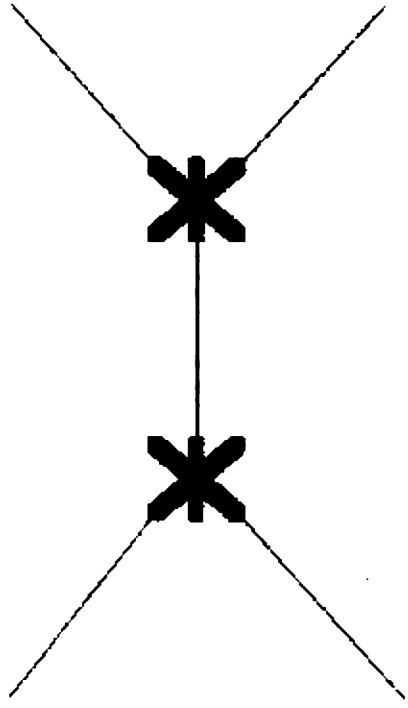
It is very helpful once you have reached this point to feel your model until you can see 8 little tetrahedron on the surfaces of the octahedron. See also how those yellow little tetrahedron taken as a group make two larger tetrahedron stuck "head to head" (as if seeing each other in a mirror), thus nesting nicely the central green octahedron. (Interdigitated tetrahedra).

Your 8 tips are now in position to make a cube. Connect the empty sleeves with 12 of the 3" red sticks to complete your cube. Notice that drawing all the diagonal lines on the cube faces, would complete the tetrahedra.

Next use 8 small wooden sticks (about 5/8" long) to double up the connectors at the cube tips. Do this by placing one end of each little stick

through the center hole of an empty six sleeve connector and the other end through the center hole of a cube tip connector. Thus you are placing an empty six sleeve connector directly on top of each tip of the cube. Slide the connectors snug together in the center of the short little sticks. (This prepares your cube to seed the growth of a pentagonal dodecahedron around it).

Now use 2 new 6 sleeve connectors and 5 green 2" sticks to make a little frame that looks like this:

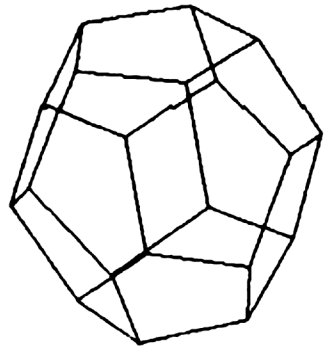


You might think of this frame as being a gabled roof to put on one face of your cube. Now build more of these little frame sets until you have six of them ready, one for each face of the cube. Again leave every other sleeve of the connectors empty.

Now put one frame (gabled roof) onto each cube face, again using only every other sleeve on the new six sleeve connectors you placed on top of the cube tips.
ALSO NOTE: as you place the little frames on the faces of the cube, alternate sides so that every THREE legged side of the roof, touches around the cube edge to an adjacent TWO legged side. Notice that the surfaces you are creating around the cube are all pentagonal, 5 sided. As you proceed around the cube, putting the little frames on, check to see that you do not create any 4 or 6 sided new surfaces.

This portion completes your inner pentagonal dodecahredron (do=2, deca=10s, hedra=faces, 2x10=20 faces). Your completed green

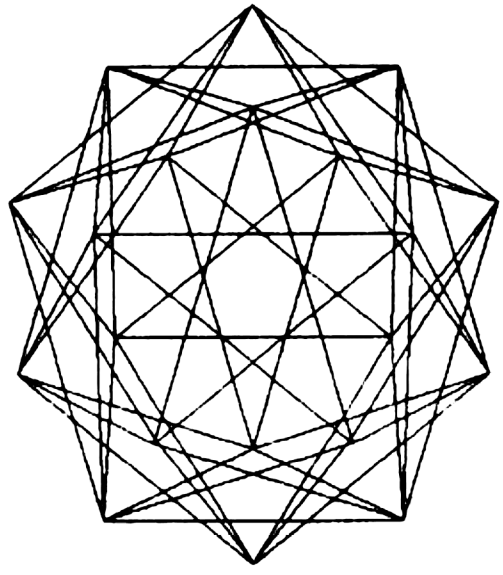
dodecahedron should look like this:



Dodecahedron: 12 faces. 20 vertices (tips). 30 edges.
Your green pentagonal dodecahedron should have 5 empty sleeves on each face. hopefully you used every other sleeve on all the six sleeve connectors you built it with.

Your model approximates natures' perfect nesting of the cube inside a dodecahedron. See if you can visualize how your same dodecahedron could hold a total of 5 cubes exactly as it does your red one. In natures perfect model of this. if the dodecahedron's edge were 1.000. then the cube's edge would be 1.618_ a very magical ratio.

If you were to place five cubes inside your dodecahedron instead of the one red one. they would be arranged like this:



(The angle at which the cube must be tilted to "wratchet" into the

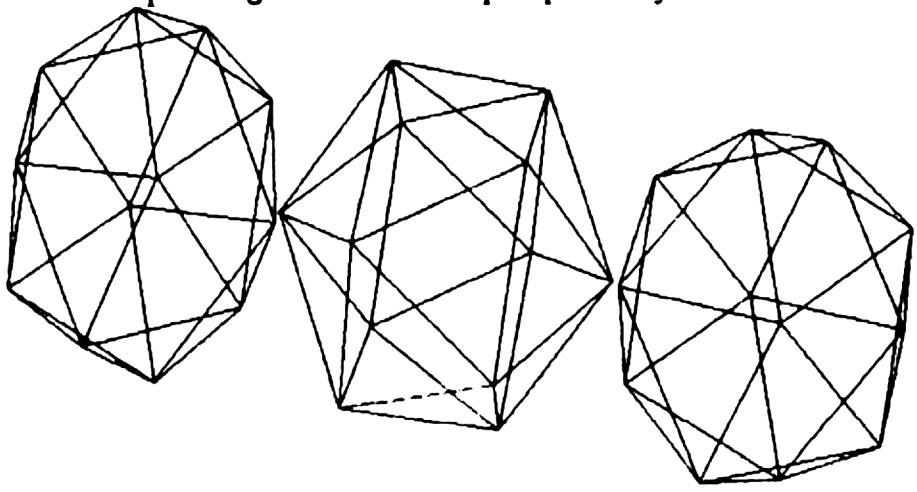
dodecahedron is very significant)

Next prepare for the next phase of growth of your crystal model by taking the 12 remaining 5/8" short sticks and place 3 of the five-sleeve connectors thru their center hole onto each little stick. Thus you will have 12 little assemblies with 3 five sleeve connectors pushed tightly together thru their center holes in the middle of the short sticks.

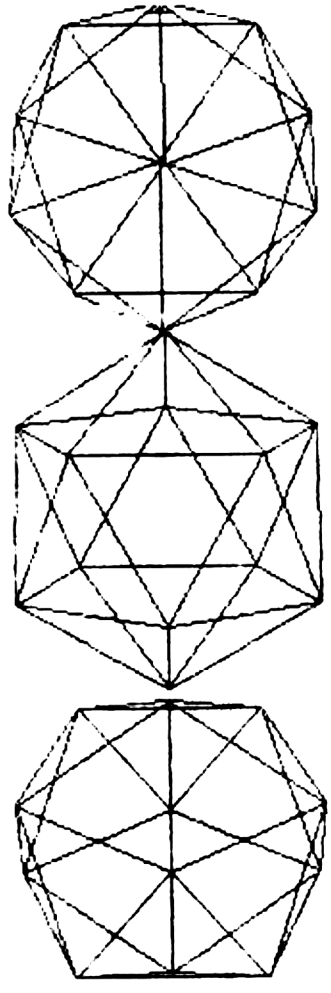
Now, taking your dodecahedron back in hand, place a five sided pyramid like stellation on each face by placing a 3" red stick in each of the 12 groups of five empty sleeves. (60 total 3" red sticks). Use your prepared 5 sleeve connector groups, one on each tip of the 12 groups, but PLACE THE RED STICKS INTO THE CENTER SET OF FIVE SLEEVES. So that at each new 5 sided tip you have a five sleeve connector fully used, with 1 empty five-sleeve connector JUST INSIDE the red tips, and one pointing outward.

We will call the twelve sets of 3 five sleeve connectors, an INNER group, a MIDDLE group, and an outer group. So now the MIDDLE group of five sleeve connectors is all filled with the tips of the stellations from your dodecahedron. (Arrange the inner empty 5-sleeves, one sticking out between every pair of red 3" legs.)

Next, make an icosahedron by placing 30 blue 5" connectors between ALL the empty five-sleeve connectors in the INNER group. So your blue tips will all end up UNDERNEATH your red tips. Work slowly and gently; use a little glue if you need to. When you are done, your blue icosahedron should look like this, depending on from what perspective you view it:



Icosahedron: 20 faces, 12 vertices(tips), 30 edges.
(a kind of mirror image of the dodecahedron).

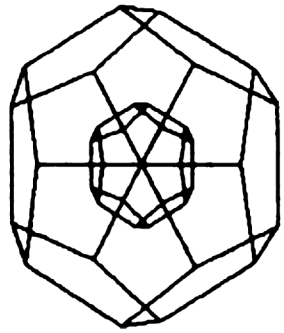


Next stellate every face of your icosahedron by building a three sided pyramid onto every face. Do this by using the 60 yellow δ˚ sticks. 3 sticks onto each face, times 20 faces = 60. Notice that you will fill all the sleeves in the outer group of five sleeve connectors. At the 20 new tips you create, use every other sleeve of the last 20 six-sleeve connectors.

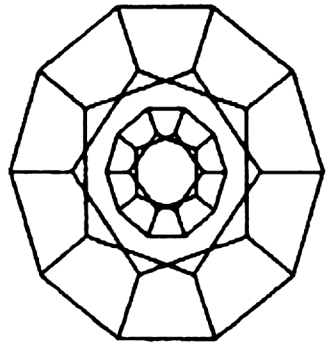
Notice that this is like extending every icosahedron edge straight out to complete golden mean (1.618_) triangles. This is also exactly what you did when you stellated the dodecahedron earlier.

Lastly, you will use the 30 gold wooden sticks to complete the outer dodecahedron. In nature, these lengths would be exactly the same as the δ˚ yellow sticks, but we have made them a little extra long, so that you can easily trim them to length to make up for slight differences in the way the connectors go together. Use your small wire cutters to carefully trim each wooden stick to the right length to just nicely fit between all the remaining sleeves on the 20 tips: to make the familiar 5 sided faces of the outer

dodecahedron. The same shape as the inner (nested) green dodecahedron, like this:



Or turn it to see this:



Remember as you trim approx 1" off the gold sticks to leave enough to go all the way into each connector at both ends. Do them one at a time, careful not to force the tips too much, get your lengths just right, so that your model will not keep popping apart from unresolved tensions. (Psychological advice). Use glue where needed, fast setting contact cement works best.

Then relax and breathe, does your new crystal creates a field by its orderliness? _ an aura? Does your attention precipitate the growth of a field around the crystal?

A Look Inside Our Star Mother

Remember when you learned how to draw a five pointed star by starting at a point and moving your pencil to five alternate points.. without lifting your pencil? (Something like Betsy Ross making the stars for the first flag.)

Mother nature's magic has it that the edges of the peaks on that five pointed star are exactly 1.6180339... times as long as the edges of the center pentagram. This number is sometimes called the GOLDEN MEAN because it is such a magical ratio.

If you connect the centerpoints of a pentagram, the new pentagram inside will have edges .6180339... times as long as the original. This ratio will be repeated as many times as you draw another pentagram inside your "nest".

If we lined up the edge lengths you would draw by nesting pentagrams the number set would look like this:

```
^
^
2.618033989...
1.618033989...
1.000000000
 .618033989...
v
v
```

This set of numbers continues infinitely in both directions.

Moving upwards in the sequence:

* any member of the sequence times 1 .618033989... equals the next member.

AND

* the sum of any two adjacent members equals the next member.

ALSO

1.618033989... = 7/5 * pi/e (e is the base of the natural logs)

Another piece of the magic here is that nested pentagrams make nested spirals. That is if you curve connect the outside edge from end to center: and then the edge of the next smaller pentagram touching that point from that end to its center ... and so on. (It's easier to do it than to read about it.) ... The result is a spiral.

In fact if you curve connect all the points in your star nest in this manner, you will have ten of these perfect spirals of the "Golden Mean".

You can create exactly this same spiral by tracing the outside points of "Golden Mean" rectangles (spiraling squares)... or by tracing the outside points of "Golden Mean" triangles (spiraling triangles).

Next, in order to help us to see how stars are made let's try to make this set of visions three dimensional

See a cube with edge length 1.00000 .
Suppose you wished to make it a house...
You place on its top surface a five line gabled roof. (That is, a regular slanted roof but with the two roof ends also slanted.) Perhaps you decide that in order to make your roof slant just the right amount, you will make all five edges of the gabled roof exactly .618033989...
Next you place that same roof on the five other surfaces of the cube. Doing it in such a way that every three sided roof surface on one cube roof is adjacent to a two sided gable end of the roof next to it.
Presto! You have made a pentagonal dodecahedron.(That is a nifty shape, even all around, made of nought but pentagrams.)
Now turn all twelve pentagrams that make up the surface of your dodecahedron, into stars by extending each edge by 1.00000 . Making twelve stars onto the dodecahedron surfaces is just like placing a five sided pyramid on each surface. Now connect the twelve peaks with lines 1.618033989...
This is an icosahedron...12 peaks, 20 faces;
This mirrors the dodecahedron...12 faces, 20 peaks.
Extend the unit edge star lines connecting the dodecahedron to the icosahedron, and you will continue making alternately dodecahedra and icosahedra...infinitely...every surface is stars within stars...every edge in continuous "Golden" ratio.
THE MAGIC OF THIS MIRROR IS THAT THE LIGHT WHICH DANCES THROUGH IT IS ALWAYS REWOVEN TO EVER MORE HARMONY AS SEED, DANCING IN AND OUT OF THE ILLUSIONS OF SEGREGATION OF MOMENTUM CALLED MATTER, TOWARD MIND.

Some further interpretive suggestions for Star Mother:

SEE STARS WITHIN STARS ON THE TWELVE EXTENDED PLANES OF THE INNER DODECAHEDRON...

HOW DID BETSY ROSS MAKE OUR FLAG'S STAR FIVE SIDED?

IF A CUBE EDGE WERE 1.000 LENGTH, ITS DODECAHEDRON EDGE WOULD BE RATIOS. THE PROGRESSION BETWEEN DODECAHEDRON, CUBE, AND ICOSAHEDRON CAN CONTINUE INWARD AND OUTWARDLY IN THIS NEST INFINITELY... ALL LINKED BY NESTED SPIRALS OF THE GOLDEN MEAN:

.618033989...	DODECAHEDRON EDGE
1.0000	CUBE EDGE
1.618033989...	ICOSAHEDRON EDGE
2.618033989...	.

INFINITE PROGRESSION EVERY PAIR IS RATIO: 1.618033989,
EVERY NUMBER THE SUM OF THE PREVIOUS TWO:
PERFECT ARITHMETIC AND GEOMETRIC PROPORTION.

YOUR NEST CONTAINS EVERY REGULAR PLATONIC SOLID IN AN ARCHTYPAL NEST. CONSIDER TOTAL ANGULAR RELATIONSHIP AS A MEASURE OF TIME.

WHEN THE PROGRESSION WE KNOW AS TIME GENERATES THE WAVE NODAL ARRAY WE KNOW AS MATTER... ANGLE BECOMES A MEASURE OF DURATION OF TIME. TOTAL ANGULAR MEASURE IN POLYGONAL SOLIDS HAS BEEN RELATED TO ELECTRON SHELL STRUCTURE AND EVEN CELESTIAL MECHANICS (NOTABLY PRECESSION).
see especially "Mathematics of Cosmic Mind"
Plummer
theosophic pub. wheaton ill.

THREE DIMENSIONS ARE SO CONVENIENT...
THE STAR MOTHER IN 3D;
ROTATION OF REGULAR POLYHEDRA,,, GETTING THE POINT(S)...

A SIMPLE EXPRESSION OF THE THREE DIMENSIONAL RECTINLINEAR COORDINATE POINTS OF THE LESSER MAZE (STAR MOTHER) IN X,Y, AND Z COORDINATES:

FIRST ESTABLISH ONLY ONE CONSTANT: 1.618033989... (THE GOLDEN MEAN)

THEN NOTE, THE POWERS OF THIS CONSTANT (CALLED PHI, PRONOUNCED FIE):

.
.
.

PHI^{-1} (POWER) = .618033989...

PHI^{0} = 1.000

PHI^{1} = 1.618033989...

PHI^{2} = 2.618033989...

.
.
.

NOTE THAT THIS PROGRESSION PROCEEDS INFINITELY IN BOTH DIRECTION, AND NOTE THAT IN ADDITION TO EACH ELEMENT TIMES PHI EQUALLING THE NEXT ELEMENT, EACH ELEMENT PLUS THE PRECEDING ELEMENT EQUALS THE FOLLOWING ELEMENT. THIS IS WHAT IS MEANT WHEN THIS GOLDEN MEAN PROGRESSION IS DESCRIBED AS THE ONLY PROGRESSION WHICH IS BOTH ARITHMETIC AND GEOMETRIC.

NOW, SIMPLY ALLOW US TO SUBSTITUTE A SHORTHAND NOTATION WHEN WE WISH TO USE ANY OF THE NUMBERS IN THIS PROGRESSION, INSTEAD OF WRITING PHI TO PARTICULAR POWER, WE WILL SIMPLY AGREE THAT PHI IS THE BASE OF THE LOG (LOGARHYTHMIC) NOTATION WE WILL USE AND WRITE THE POWER ONLY IN PARENTHESIS. THUS WE WILL CALL 1.618... WHICH IS PHI TO THE ONE POWER SIMPLY (1). .618... WHICH IS PHI TO THE MINUS ONE POWER SIMPLY (-1). ETC.
NOTE THAT (0) WILL MEAN PHI TO THE ZERO POWER= 1,
WHILE 0 WITHOUT PARENTHESIS WILL MEAN SIMPLY 0.
NOTE THAT (-1) WOULD MEAN PHI TO THE MINUS ONE POWER=.6180339
WHILE -(1) WOULD MEAN -(PHI TO THE ONE POWER)= -1.618033989

NOW LOOKING AT THE STAR MOTHER (LESSER MAZE) WHICH CONTAINS EVERY REGULAR POLYGON, WE WILL CALL THE CUBES EDGE LENGTH EQUAL TO 2 IN OUR X,Y,Z COORDINATE SYSTEM.

THEN THE X,Y,Z COORDINATES OF THE POLYHEDRA ARE:

	PHI LOG (POWER) NOTATION	/ NUMERIC EQUIVALENT
OCTAHEDRON	0, (0), 0	/ 0,1,0
(INSIDE THE CUBE):	(0), 0, 0	/ 1,0,0
	0, -(0),0	/ 0,-1,0
	-(0), 0,0	/ -1,0,0
	0, 0, (0)	/ 0,0,1
	0, 0,-(0)	/ 0,0,-1
CUBE	(0), (0), (0)	/ 1,1,1
(INCLUDES THE TWO	(0),-(0), (0)	/ 1,-1,1
TETRAHEDRA NESTED	-(0),-(0),(0)	/ -1,-1,1
IN THE CUBE)	-(0),(0), (0)	/ -1,1,1
	(0), (0),-(0)	/ 1,1,-1
	(0),-(0),-(0)	/ 1,-1,-1
	-(0),-(0),-(0)	/ -1,-1,-1
	-(0), (0),-(0),	/ -1,1,-1

PENTAGONAL DODECAHEDRON -TWENTY VERTICES, TWELVE FACES-
(A SIMPLE FIVE STEP NUTATION OF THE CUBE....
THEREFORE INCLUDE THE ABOVE EIGHT POINTS AS PART OF THE 20 DODECAHEDRON VERTICES, AND SIMPLY ADD THE FOLLOWING 12 POINTS:)

-(-1),(1),0	/ -.618	, 1.618	, 0
(-1),(1),0	/ .618	, 1.618	, 0
(1),0,(-1)	/ 1.618	, 0	, .618
(1),0,-(-1)	/ 1.618	, 0	, -.618
-(-1),-(1),0	/ -.618	, -1.618	, 0
(-1),-(1),0	/ .618	, -1.618	, 0
-(1),0,(-1)	/ -1.618	, 0	, .618
-(1),0,-(-1)	/ -1.618	, 0	, -.618
0,(-1),(1)	/ 0	, .618	, 1.618
0,-(-1),(1)	/ 0	, -.618	, 1.618
0,(-1),-(1)	/ 0	, .618	, -1.618
0,-(-1),-(1)	/ 0	, -.618	, -1.618

ICOSAHEDRON -TWELVE VERTICES, TWENTY FACES-
(EACH OF THE ABOVE DODECAHEDRON (30)EDGE LENGTHS WERE EXTENDED STRAIGHT OUT BOTH ENDS BY RATIO 1.618, PRODUCING THE ICOSAHEDRON, EDGE LENGTH SAME AS EXTENSION LENGTH, AGAIN 30 EDGES)
(THIS FIGURE IS SIMPLY THREE PLANE PERPENDICULAR-GOLDEN MEAN RECTANGLES)

(2), 0, (1)	/ 2.618	, 0	, 1.618
(2), 0,-(1)	/ 2.618	, 0	, -1.618
-(2), 0, (1)	/ -2.618	, 0	, 1.618
-(2), 0 -(1)	/ -2.618	, 0	, -1.618
-(1), (2), 0	/ -1.618	, 2.618	, 0
(1), (2), 0	/ 1.618	, 2.618	, 0
-(1),-(2), 0	/ -1.618	, -2.618	, 0

(1),-(2), 0	/	1.618 ,	-2.618 , 0
0, (1), (2)	/	0 ,	1.618 , 2.618
0,-(1), (2)	/	0 ,	-1.618 , 2.618
0, (1),-(2)	/	0 ,	1.618 , -2.618
0,-(1),-(2)	/	0 ,	-1.618 , -2.618

NOTE HOW SIMPLE IT IS TO CONTINUE INFINITELY...
SIMPLY EXTEND EVERY ICOSAHEDRON EDGE LENGTH STRAIGHT OUT BY RATIO GOLDEN MEAN, TO MAKE ANOTHER DODECAHEDRON, THEN EXTEND THE DODECAHEDRON EDGES STRAIGHT AGAIN TO MAKE ANOTHER ICOSAHEDRON, ALTERNATING INFINITELY.....

EACH SUCCEEDING DODECAHEDRON OR ICOSAHEDRON CAN BE PLOTTED SIMPLY BY ADDING TWO TO THE LOG PHI, (GOLDEN MEAN POWER) TO EACH COORDINATE OF THE SAME POLYHEDRON INSIDE IT!

Use vision to understand the physical (phi cycle) significance of this. The distance from every node to every axis of symmetry, and to the core, is always a power of the GOLDEN MEAN. See 12 golden mean, spiral cones, in this required pyramid like angular relation, making our STAR MOTHER, and indirectly the dodecahedra of DNA. See concentric spheres as wave bubbles. The wave length must divide evenly into the RADIUS as a power of the golden mean. This fulfills the requirement that waves colliding toward a center of gravity (mass), in "order" to conserve momentum (order, memory, mind), must not interfere with each other. The harmonics (sum and difference heterodynes) of waves in ratio: GOLDEN MEAN, make ONLY constructive interference as they nest this way. HENCE, THE STAR-MOTHER MODEL, AND DNA.

THE SHAPE SIGNIFICANCE OF GENETIC MATERIAL AS A WAVE PATH FOR FREQUENCY SIGNATURE,

AND AN INTRODUCTION TO THE FREQUENCY SIGNATURE IDENTITY OF CELL METABOLISM, EMOTION, AND LANGUAGE; WITH ULTIMATE KEYS TO THE UNFOLDING GEOMETRY OF THE PLANET TECHTONIC GRID.

BY

DAN WINTER
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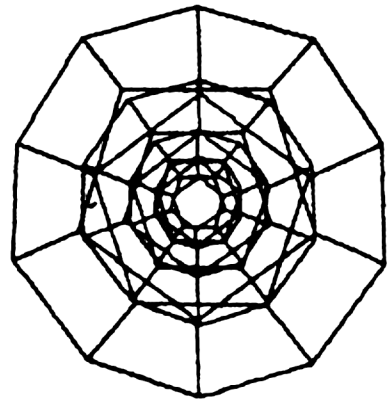
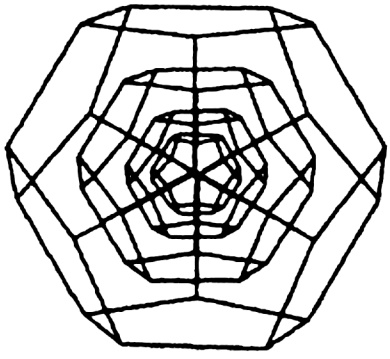
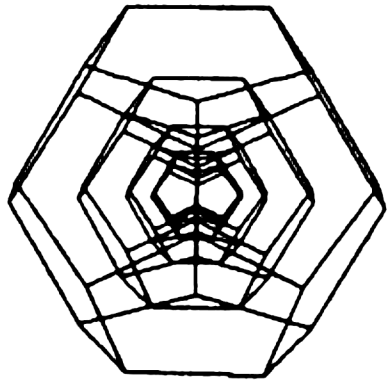
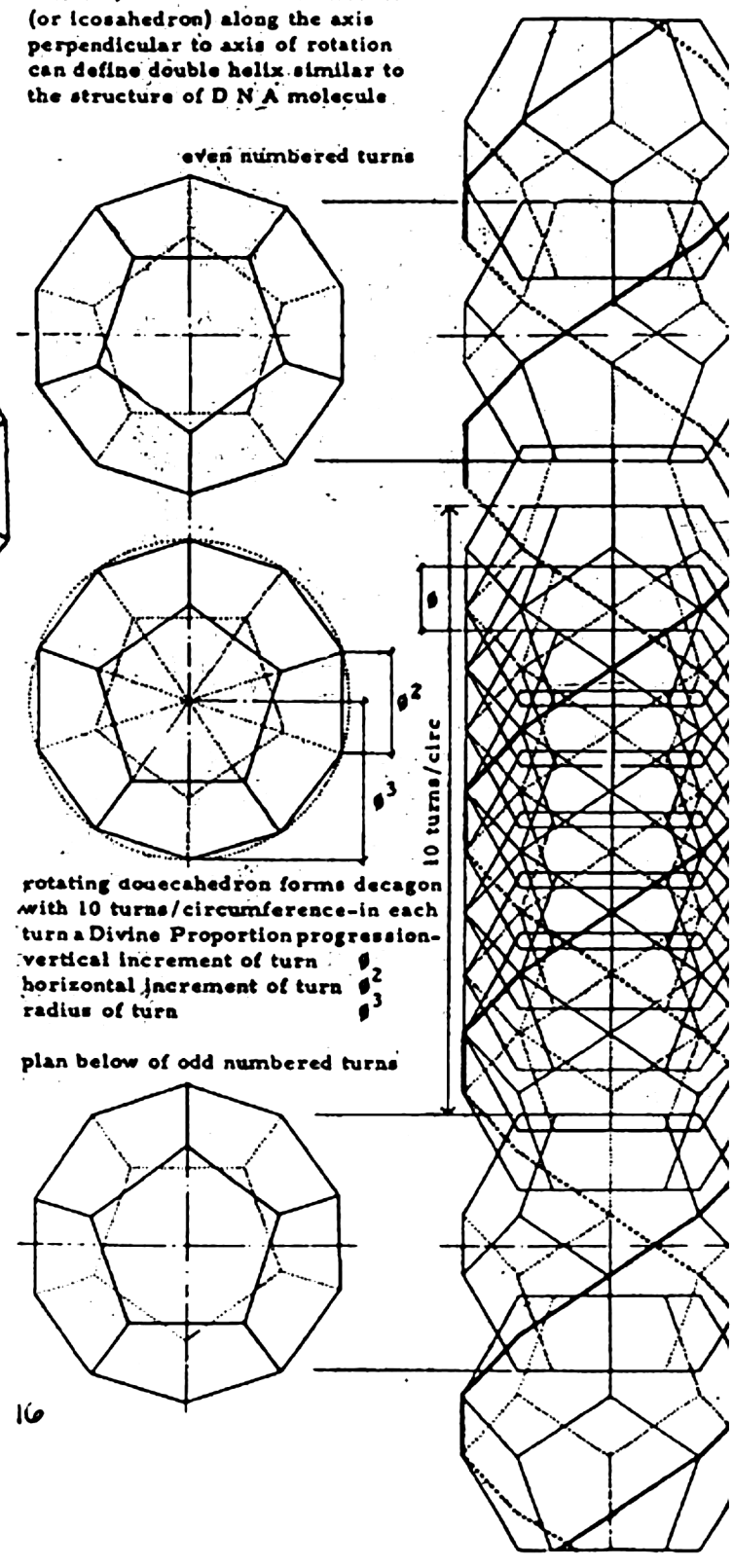
ON

3/29/87








HELICAL EXTENSION OF ROTATIO
helical extension of dodecahedron (or icosahedron) along the axis perpendicular to axis of rotation can define double helix similar to the structure of D N A molecule
even numbered turns
10 turns/circ
rotating dodecahedron forms decagon with 10 turns/circumference-in each turn a Divine Proportion progression-
vertical increment of turn
horizontal increment of turn
radius of turn
plan below of odd numbered turns

INTRODUCTION

These notes are developed to open thought provoking avenues between the often intuitively recognized emotional substrate of disease, and the more eloquently known resonance mechanics of gene and cell life.

In order to easily follow the ideas presented, consider that:

1. The unified field identity of nature, embraced by all wisdom traditions and the approriate dream of Physics, means that our habit of naming things never could describe substance; ONLY SHAPE... resounds.

2. The light womb woven waves of atoms/cells/words are enveloped, seeded and pregnant with resonance/presence of mind/intention.

SPIRAL EXTENSION OF HELIX

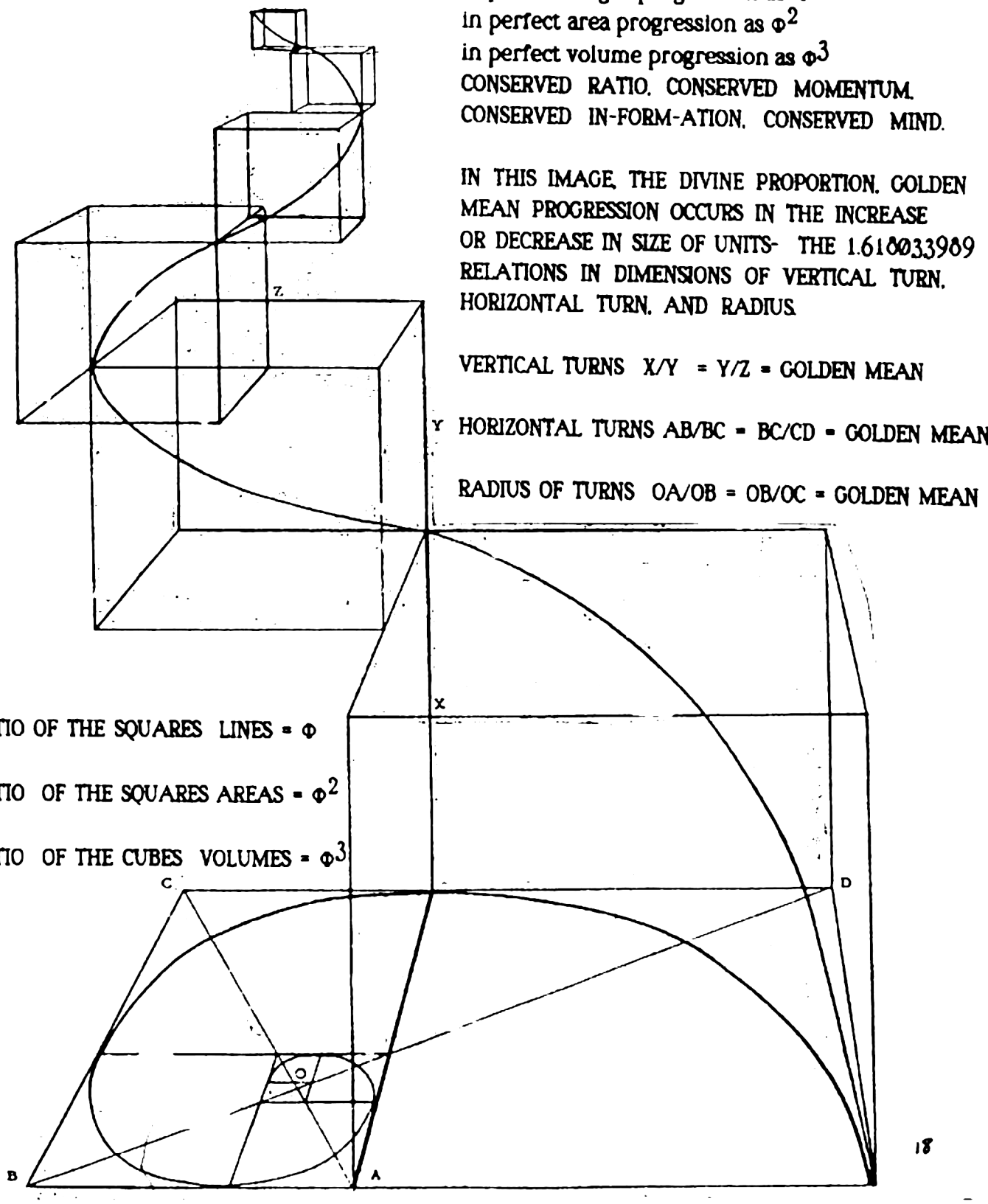
using the Golden Rectangle as
geometric basis of a spiral.
Sequences the ratio: 1.618033989
Golden Mean (Φ) (phi).
in perfect length progression as Φ
in perfect area progression as Φ^2
in perfect volume progression as Φ^3
CONSERVED RATIO. CONSERVED MOMENTUM.
CONSERVED IN-FORM-ATION. CONSERVED MIND.

IN THIS IMAGE, THE DIVINE PROPORTION. GOLDEN MEAN PROGRESSION OCCURS IN THE INCREASE OR DECREASE IN SIZE OF UNITS- THE 1.618033989 RELATIONS IN DIMENSIONS OF VERTICAL TURN. HORIZONTAL TURN. AND RADIUS.

VERTICAL TURNS X/Y = Y/Z = GOLDEN MEAN

HORIZONTAL TURNS AB/BC = BC/CD = GOLDEN MEAN

RADIUS OF TURNS OA/OB = OB/OC = GOLDEN MEAN



RATIO OF THE SQUARES LINES = Φ

RATIO OF THE SQUARES AREAS = Φ^2

RATIO OF THE CUBES VOLUMES = Φ^3

At first, in principle, the uni verse took shape; word has it that it consisted of every thing that could be named.

The background of these notes is our need to gain perspective into the more specific mechanics of the relations between emotional patterns and disease patterns. As we approach this problem, we are at once faced with this vast chasm of difference in SCALE, between cellular and genetic life, versus the relative enormity of macro-glandular (chakra) and whole organism shapes of EMOTIONAL life. Cells and genes are tiny and visually untouched by the messes we usually think of as human emotion.

With this dilemna of difference of scale in mind, we need a ladder, an image, a wratcheting "more"-than-symbolic stairway...& yellow brick road.... to connect the active bioenergetics of cell with whole-body.

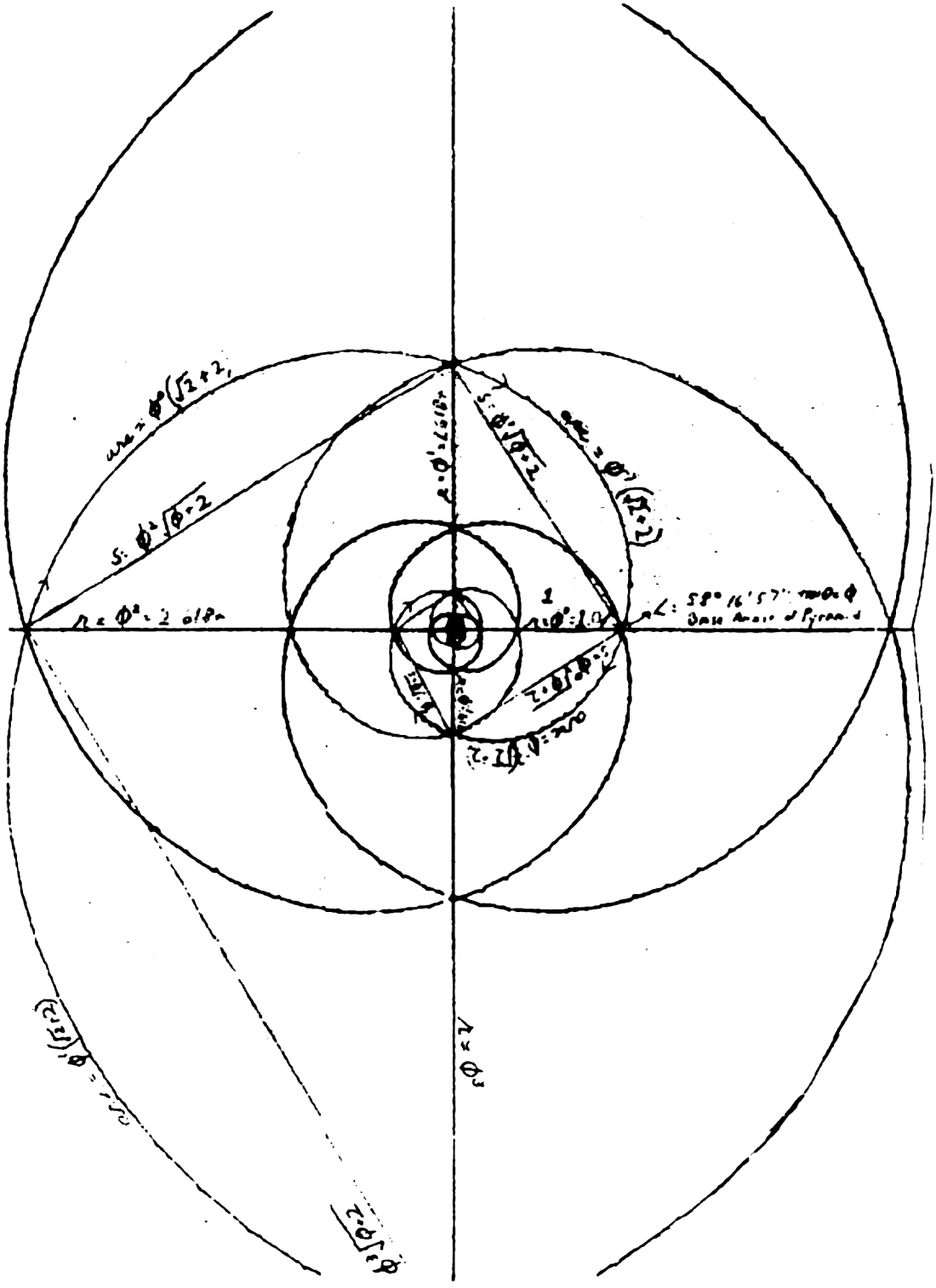
Fortunately we have a metaphor from the physical (phi-cycle) disciplines; in quartz crystal, or muscle tissue.... electrical pressure waves and sound pressure waves touch each other ACROSS GREAT DISTANCES OF SCALE. This piezoelectricity is accomplished by the wave guide nature of a helical stairway of nodes. The node is a region of compression. Wave velocity varies directly with the density (compression) of its medium. The travel of a wave is blocked or limited (enveloped) from certain directions of propagation by each node. WAVE ENERGY IN A HELIX FOLLOWS THE LINES OF LEAST RESISTANCE BY TURNING AROUND A RIGHT -ANGLE TO FLOW ALONG THE COMPRESSED CONDUIT AT AN ACCELERATED VELOCITY. Energy increases by the square of velocity. Wave length is a function of velocity. BECAUSE THE WAVELENGTHS THAT CARRY THE...(light/gravity/powder/sound)... CHANGE AT THE NODES, THE...(light/gravity/powder/sound)... SETTLES THERE. The wave momentum flows from the AREA of the quadrants into the LINES of the nodes.

THE HELIX IS A NATURAL SELECTION AMONG WAVES TO BUILD A STAIRWAY BETWEEN FREQUENCIES, whether piezoelectric/crystal, genetic, or glandular/chakra.

"EYE OF GOD"

"VESICA"

4 "Secred" Spirals of The GOLDEN MEAN



$\phi^2 =$
2.618+

Golden Mean spiral can be expressed $r = \Phi^{(2\Theta/\Pi)}$

In Log terms $\Phi = (7/5)(\Pi/\varepsilon)$

The Quadrant radii, arcs, and chords each proceed in Golden Mean ratio.

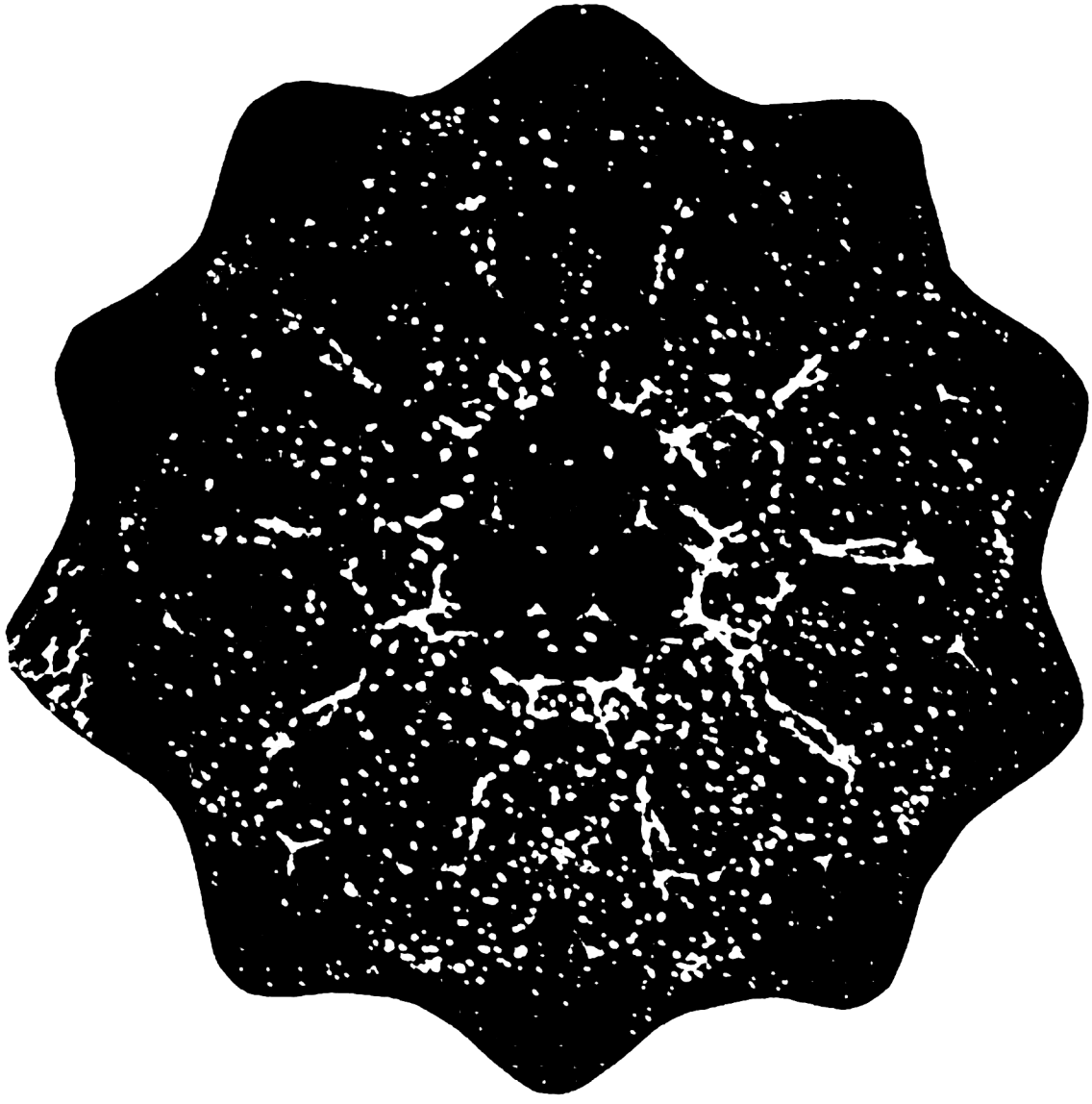
The Quadrant triangles, squares, rectangles and arc sector AREAS each proceed in Golden Mean squared ratio

"TWO PENTAGONS"

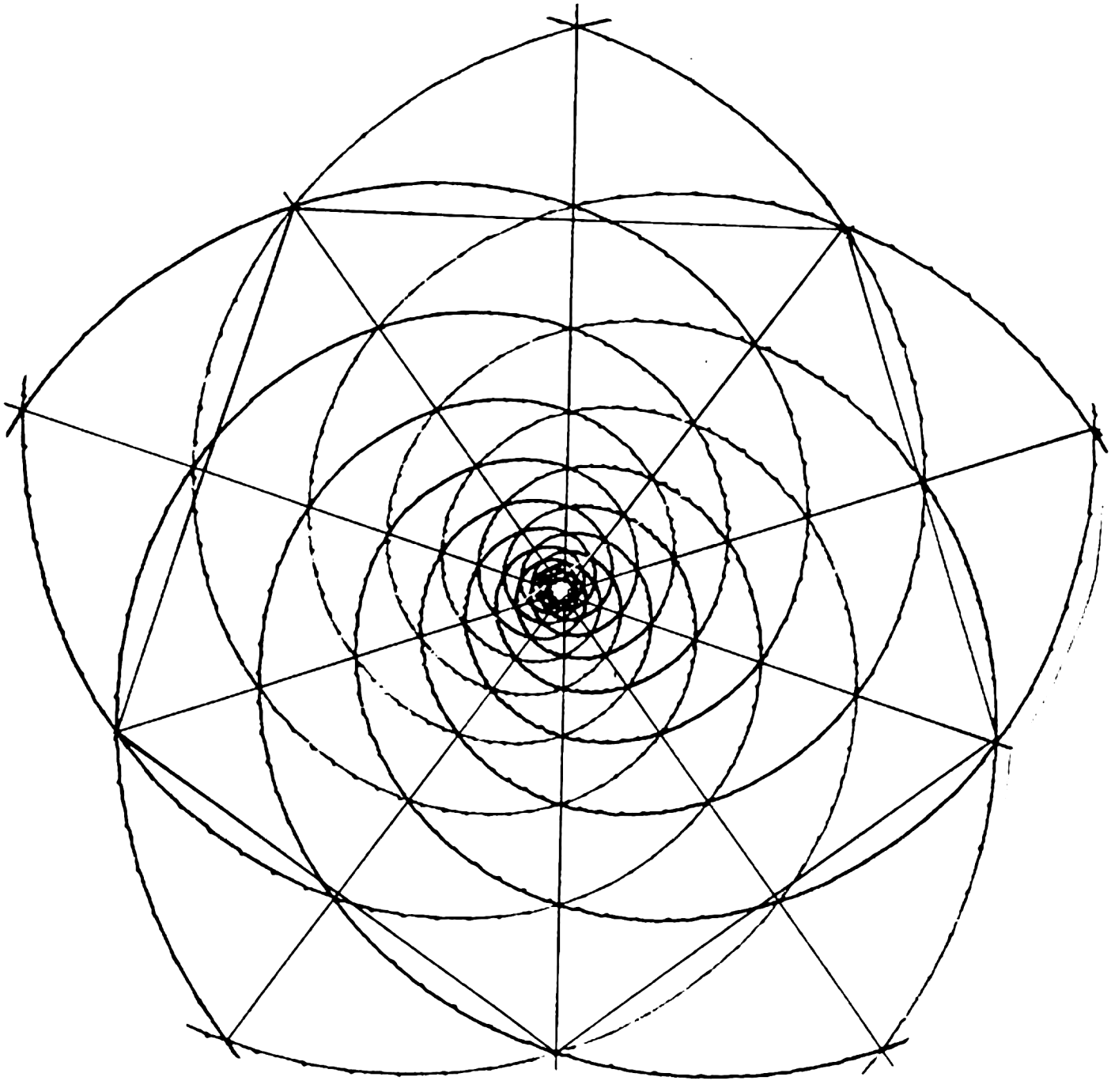
A DETAILED COMPUTER GENERATED MODEL OF DNA

SEEN FROM ABOVE.

(note the outline of two concentric pentagrams)



Light is fooled, it doesn't know whether its entering a simple net on a planar surface, or an infinite tube. It all looks the same from up there. First it finds its way into the nest, there to discover the perfect place to raise the heterodyne children of light, without interference.



TEN SPIRALS OF THE GOLDEN MEAN.
A perfect nest of pentagrams.
This is the trap which tempts light out of the fast lane, into biology.

Next, we come to the problem that nature seems to have limited herself to a very PARTICULAR helical form to accomplish this connectedness between gene world to cell world, to gland world. Clearly there is something energetically functional and necessary to this form, for example DNA.

As visible by the illustrations attached, DNA seen from above is a simple ten sided decagon. Three dimensionally this means that there are ten rungs to its ladder, per helical rotation. The decagram in DNA is formed by the simple superposition of two pentagrams. This is exactly the perfect childs way of deriving the GOLDEN MEAN ratio of edge lengths, (Simply draw one pentagram touching the edge centers of another & you have it.)

As per the cover illustration, DNA is visually described by extending a pentagonal dodecahedron helically. Note how it weaves perfectly around all three perfect progressions Φ , Φ^2, Φ^3 , (GOLDEN MEAN, SQUARED, & CUBED) length, area, and volume.

Then, note the SPIRAL OF EXTENSION OF HELIX (Spiralling Squares & Cubes) illustration. See the conservancy of ratio in progression of length, area, and volume embraced spirals of the golden mean. TEN OF THESE SPIRALS OF THE GOLDEN MEAN, PERFECTLY SPACED AT THE 36 DEGREE ROTATION OF THE DNA LADDER RUNGS, PERFECTLY MAKES IN 2D THE NESTED PENTAGRAMS, AND IN 3D, THE WRATCHETED DODECAHEDRA CALLED DNA.

Clearly there is some elegant function accomplished by the weaving of all this essence of geometry into gene stuff. Why this ratio??????

Consider the Golden mean for a moment as a child learning to add columns of numbers..... let's see...

It is an infinite series... —

—

.618033989...

1.000

1.618033989...

2.618033989...

The series works when you add each adjacent pair to make the following, this is called an arithmetic progression. The series also works when you multiply any number in the series by 1.618033989 to get the next one. This is called a geometric progression. This GOLDEN harmonic series is the geometric universes only home for this kind of elegance.

Now recall that anytime two waves meet at a node (focus of compression) they generate children or heterodynes. These are simply wave sets whose wave lengths are the addition of, and multiplication of the wave lengths of their parents. Thus it would appear that as a wave mechanic device for getting waves of different lengths together without fighting, the GOLDEN MEAN is a perfect gateway between length.. (SCALE).

This brings us perhaps to our first clue about healing. We see that the necessary process which brings order to the nest is focus. The mechanism which produces the phase coupling, alignment and natural selection of constructive interference from destructive interference, is focus. NOTE the NODE is the FOCAL point, the pressure there turns the light into the envelope of shape called bios-logos. From focus, as in prism to rainbow, order replicates and lives, disorder is SELF destructive. Please hold this idea for below we need to understand the role of FOCUS which allows immunological identity to radiate with coherent order from gland.

In summary , we have looked at harmonic ratios in genetic material. We learn that by conserving length, area, and volume along a wave pathway, nature has conserved in-form-ation. We note that FORM is the only mechanism for storing and conveying information/mind in a universe of one substance.

Next, we need to use this foundation of understanding to gain insight into the timing and structuring mechanisms of cell metabolism. We will briefly outline a resonance theory of cancer, as a bridge to our resonance model of

emotion, and finally to attempt a bioenergetic approach to the AIDS syndrome.

Another significant conceptual tool we will need to build our model is the physical principle called FOURIER transform. This is simply another word for FREQUENCY SIGNATURE, or SPECTRUM ANALYSIS. What needs emphasis here is that this principle states that EVERY shape in the universe is comprised of adding together simple sine waves. SO THAT IN ADDITION TO OUR TENET THAT THE UNIVERSE HAS ONLY ONE SUBSTANCE, WE ARE NOW ADDING THAT THE UNIVERSE HAS ONLY ONE WAVE SHAPE. Things are really getting rather simple don't you think?

It is comforting when we think of holography and its "everywhere at once" phenomenon that complex shapes (like light wave envelopes) contain an infinite nest of simple sine waves. It's a good way for things to stay connected.

The next idea we need is to understand that IDENTITY arises when a wave stores enough order to retain (that is remember) its shape. It literally SINES its name. Hence our concept frequency signature.

Two examples:

1. Three ropes, one of wool, one of nylon, one of cotton are fused together end to end. A slip knot is passed along from one to the next.
   a: what is the slip knot? (not wool or nylon or cotton is it?)
   b: what does it remember?
   c: does it have a name?

The relationship of the slip knot to the rope (A WAVE GUIDE, A FREQUENCY SIGNATURE, AN ENVELOPE, A SHAPE, A MORPHIC RESONANCE) is the same as the relationship of biology to light. ...
Lots of re-mem-bering to do.

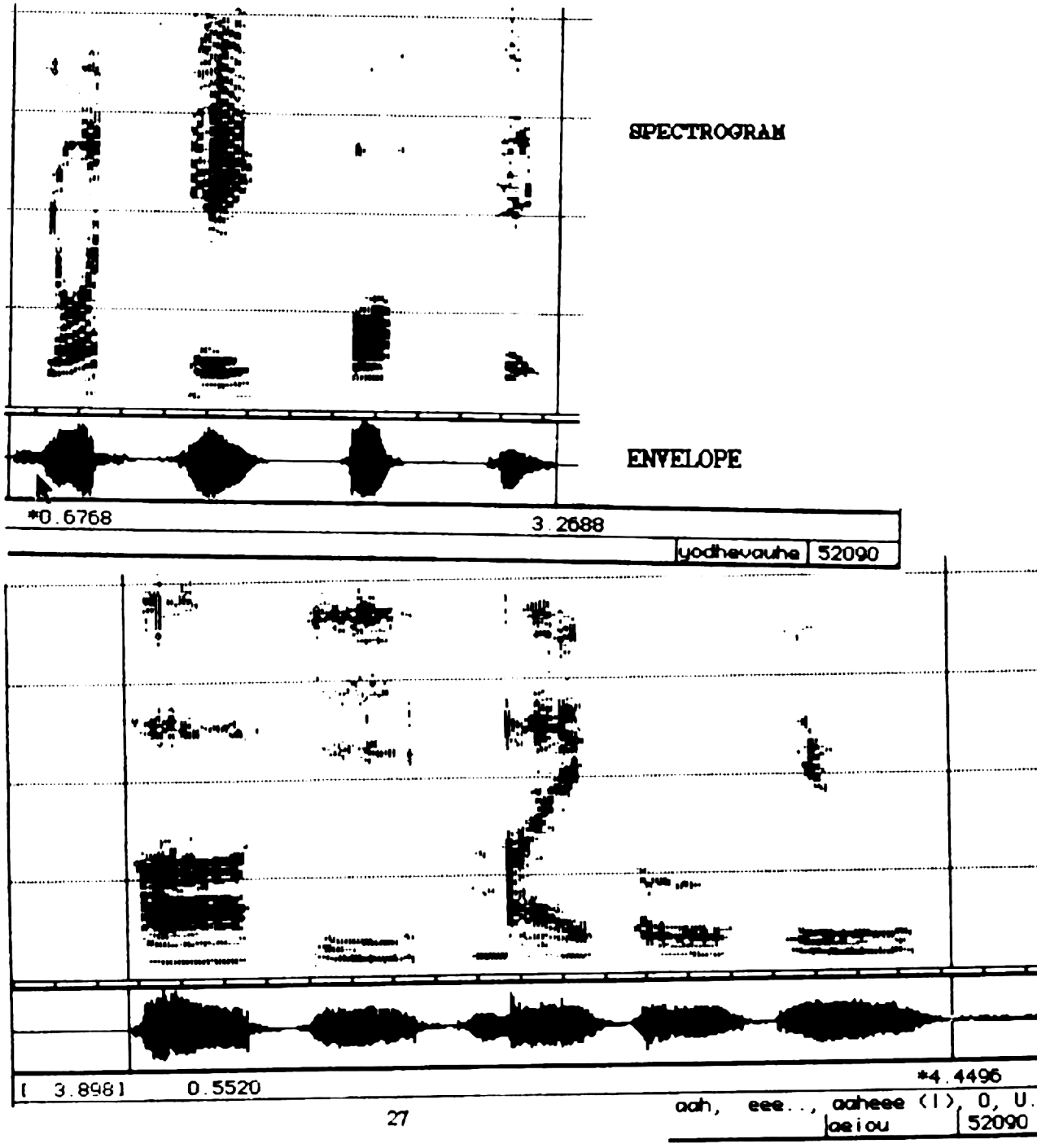
2. (Second example). A singer entones a vowel sound several octaves apart. You recognize instantly which vowel she is singing, despite the great difference in frequency. Why? How?
A FREQUENCY SIGNATURE, AN ENVELOPE, A SHAPE, A MORPHIC RESONANCE..... IDENTITY.
Vowel tones are recognized regardless of the frequency at which they are entoned because the RATIO of the length of their ENVELOPE to their carrier wave (The length of the oral cavity..envelope.. as ratio to the carrier from the vocal chords), is fixed, archtypal, golden. Notice how you could draw the cavity of your mouth as a perfect envelope shape, shaping the tips of the shorter carrier waves from the vocal chords, into longer ENVELOPES. Say "aaah", say "oooooh", what changed, cavity or vocal chords? , envelope or carrier?

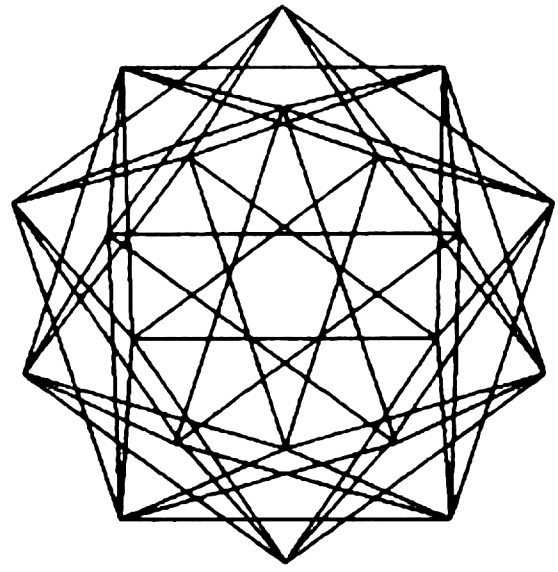
So the language of recognition means frequency pictures transcend scales (in music quite literally, in emotion too) by using the geometry that is ratio.

An image might change the universe, as a seed cuts from sub atomics to intergalactics. Scale is profane, ratio is sacred. The archetecture of what is etched in crystal at first seems powerful when you carve cities from stones; but the same archetecture etched in crystal is MORE powerful when carved in the computer chip.

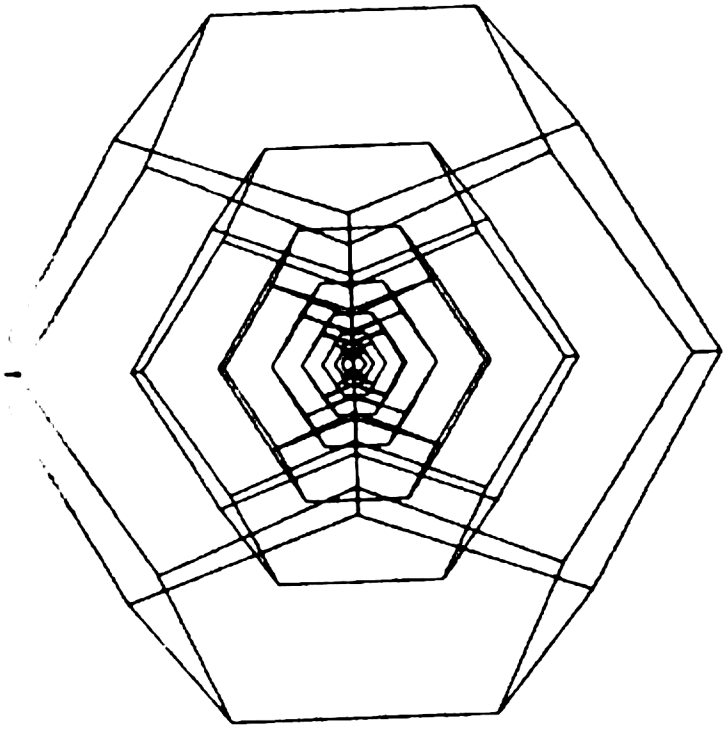
Let us decide gently on the question of which empowers whom, the long waves of emotion or the short waves of the gene.

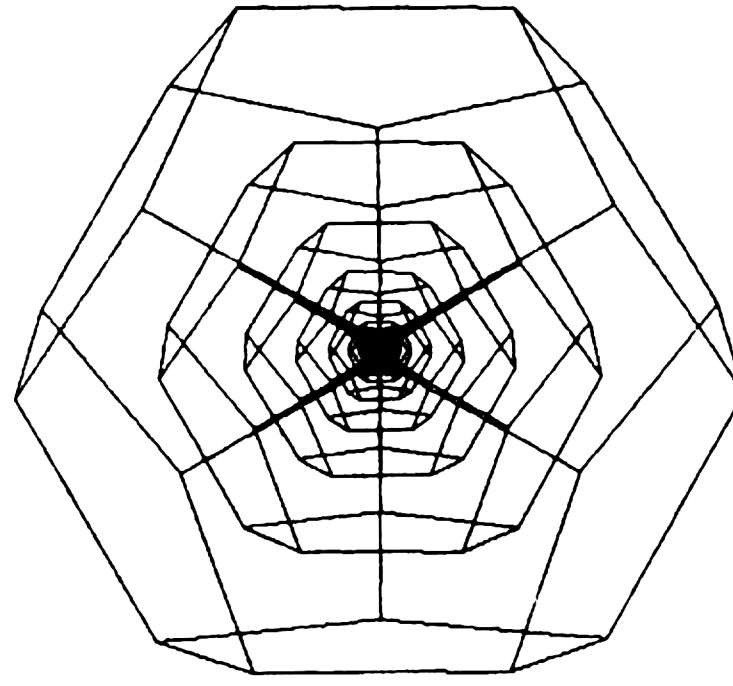
Spectrograms: Morphic Resonance of Primal Sounds.
A few simple examples of the shape created by your mouth, enveloping sound.
(From Mac Computer, MacAdios Speech lab at Crystal Hill)
1. Yod He (pronouced hay) Vau He = origins of Yalveh.
Notice the "Y" shape at the arrow for the first yod.
See the large "O" shape in the frequency breakdown above that first Yod.
Notice the "V" shape in the 3rd envelope (Vau) points the opposite way as the "Y". Feel the difference in the shape of your mouth as you say "Y"ah and "V"au. Can you connect shape to meaning?

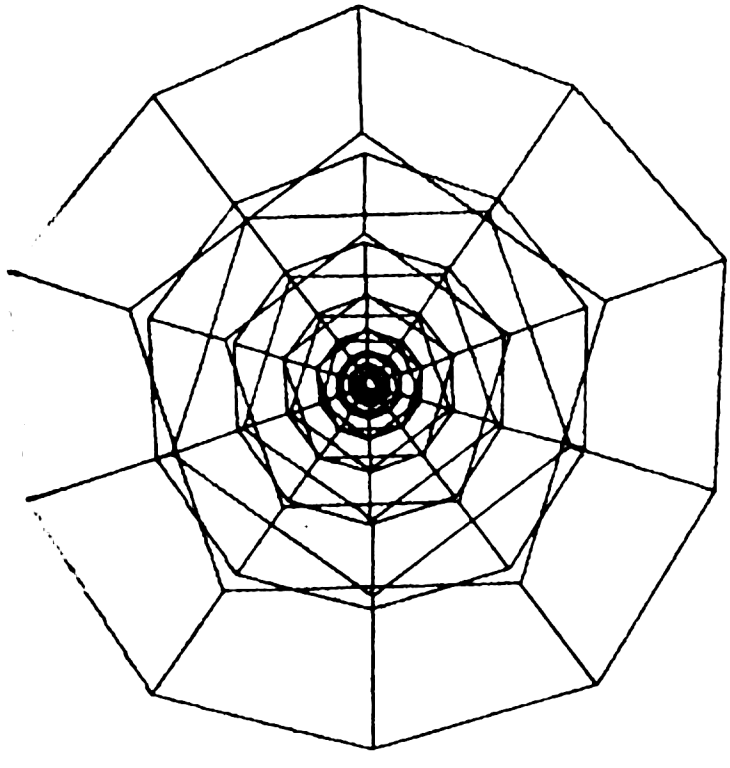




WHEN THE CUBE IS TILTED AT THE CRITICAL ANGLE OF PHASE SHIFT. SIMILAR TO THE PLANETS ANGLE OF TILT. THEN SPINNING IT WITH 5 STOPS OR WRATCHET POINTS ALONG THE WAY. PRODUCES THIS INNER TRACING OF A DODECAHEDRA: A GOLDEN FLOWER UNFOLDS. GENESIS FOR CELL. PERSON. PLANET.







We will need two more principles in order to continue:

1.

All bonding in the universe is the PHASE LOCKING (That is, complete and unconditional giving) of waves (or the children of waves) moving in opposing directions.

2.

In-form-ation content, density, and therefore potential to envelope order/mind increase with frequency, speed, and rotation.

Rotation among waves is what produces envelope, thus another axis of spin is always another level of harmonic superposition; figuratively the finger of God reaching into gene.

Next a brief development of our resonance and frequency signature model as applied to cell metabolism to illustrate a bridge between cancer and emotion.

In the life of the cell, just like a computer, or a lover, TIMING is everything. Did you ever pause to wonder how thousands of sub cellular organelles (like mitochondria, microtubules etc.) should be able to know just when and where to start the dance leading to DNA precursors and MITOSIS/MEIOSIS (division)? It's sort of like the question of how does the bird know how to fly in the vee without constantly looking over its shoulder.. the fish in the school.. Well, we might begin to answer this question by asking, what do each of the organelles have in common that could link them with their fellows? How about, the SHAPE of their chemistry. A wave geometry of field effects could be quite adequade to resonance key trigger, time, and choreograph the dance of cell division.

Further, we could understand the passage of energetic currency through the cell as a child tinkling the piano. Each element of food is "symbolized"

enveloped by the bond length (THAT IS WAVE LENGTH) which characterizes its chemistry. The passage of momentum (ATP/ADP) etc. through the hallways that are orderly distributions of charge in the cell is all IDENTIFIED by wave length (FREQUENCY SIGNATURE). You could describe each of the major storehouses for energy within the cell chemistry as a kind of energy pool identified by its note. It sings joyful or painful music while MASSAGING the envelopes of light toward the finer frequencies of the genetic pathway. The cells decision of where to focus the momentum of its light/life is its name/ identity and service. Genetric material contains and emits some of the highest frequencies in the cell. Genetic material is the stuff in the cell most susceptible to electromagnetic resonance. This is the ectoplasmic eros of the cell. Metabolism as a whole is geared to weaving and massaging order from low frequencies to high, food to gene. Low frequencies feed the flames of love/reproduction which is emanation of high frequency.

During division the emission of high frequency ultraviolet light and ultrasonics is characteristic of the field geometer choreographing the dance. This model suggests looking at these spectral emissions for signature, ratio, and identification of health/disease; later to develop a model for selectively feeding the cell at this level. cf. the work of Wilhelm Reich on the Orgone, and the work of Raymond Royal Rife (The Rife microscope) to selectively destroy viral involvement by critical frequency RF scanning.

In the cancer cell the natural progression of the erotic high frequency products of metabolism toward other cells and social activity is blocked. In one sense the tendancy to cancer in cells is MEASURED by CONTACT inhibition. Thus limited to only internal creative outlets, the cell (the child) becomes promiscuous... the only way out is sex.
In the healthy cell, the appropriate outpouring of the best nectars of the cells magnetic circulatory system, pour into the trans-generational chasm that is genetic replication only in concord with the social needs of its neighbors. Obviously to discover what is the choreographer of the choice by the cell when to pour its love into more genes, we need to look at what links cells to

larger systems in general. Larger systems like tissues and glands mean longer wave lengths: a currency for organizing metabolism based on a different SCALE. (Suzanne Langer, A Philosophy in a New Key).

We are now approaching the crux of our paper. Where in the body does the passage occur from the emotion to the cell?

Ben Bentov in "Stalking The Wild Pendulum" (Dutton) measured the significant acoustic (LONG WAVE) coupling which occured between the glandular cavities of the body during relaxation. He found that the glandular resonance cavities in the body began to function like a very organized cascade column of staged tuned resonators. The ventricle cavity of the brain, for example, did not only ring acoustically exactly like a physically obedient "can of peaches", it was also explicitly phase entrained with the lower frequencies of the heart . The heart itself had found a resonance of relaxation, efficient to its tension geometry.. strung up.. as it were.. artery to vein.

We have further and since learned that this phenomenon of low frequency coherence in the body is ENTICINGLY tied to many things....

1. Phase entrainment in the brain, Alpha, Theta, cross hemispheric EEG coherence correlated explicitly with the Yoga Siddhis (MIU research), correlated with psi phenomenon and much more.
2. Phase entrainment to the Schuman low frequency resonance of the planet: umbilical cord to planetary mind/rapture.
3. Production of nets of neuronal synchrony, a progression of crystallizing macrocellular geometry in the brain, yielding:
    a. Acoustic massage/"softening" the concentric glands to the cavity, piezoelectrically triggering psychoactive hormonal secretion and the natural high (ecstacy).
    b. Acoustic (sonic) choreography known to account for super-conductivity in metallic crystals, here precisely describes the brain as it moves in joy across that delicate threshold from liquid to crystal. Crystals can shiver with a conductive frequency

waters cannot. Billiard balls conduct momentum best when they are locked together.

c. The brains macrocellular progression through large scale crystallizing nets of geometry, allow it to assume a microwave and higher frequency, wave guide antennae function, similar to that described by Phillip Callahan in "Tuning in to Nature" for insect antennae shapes.

In summary, the low frequency long wave ringings in the body, are the arranger of many nice things. Many of these evolutionarily useful products of ELF (Extra-Lo-Frequency) field coherence in the body, interestingly actually produce coupling with VERY high frequency fields (God). This brings us to our next important principle:

IN THE UROBOROTIC SERPENT EATING ITS TAIL OF THE CONTINUUM OF FREQUENCIES FROM INFINITELY LOW TO INFINITELY HIGH, the wave which is perfectly described as everywhere at once, AND perfectly motionless.... IS EXACTLY THE SAME WAVE AT THE LOW END OF STILLNESS, AS AT THE HIGH END OF INFINITE MOTION. That IS where the serpent eats its tail, and how our universe feeds itself end to end (very much through the spark gap called biology).

Perhaps this all seems like a torturous and serpentine route to understanding emotion, but we are on the threshold of real understanding.

The speed of response of the GSR (Galvanic Skin Resistance) to changes in idea/ emotion, gives us some idea of the responsitivity of the body as a conductivity net to the focus of mind. In fact having measured the conductivity pathways electrically described by tradition as acupuncture meridians, we see that the body is exactly an electrical pressure nest for mind. The shapes of the conductivity paths in the body are constantly responding instantly to the shapes of our "FEELINGS".

Well, this is nice to say that emotions have electrical power (In graduate school we differentiated -IDENTIFIED- fear vs. anger physiologically)...

BUT we need a clue to interpreting the shapes of their language as feeling, in order to use them consciously.

And for that we will come to Sentics, but first, two sentences back we almost tripped over another useful fundamental principle of the universe, and we should be explicit about it:

EVERY SYSTEM WHICH STANDS AS WAVE, OR LIVES IN THE UNIVERSE (all of the fundamental forces) and including but not especially biology, CAN BE ENTIRELY DESCRIBED/VISUALIZED/UNDERSTOOD AS A GEOMETRY OF PRESSURE. This is a dynamic, hydrodynamic, language of common denominator which will allow us to understand vastly disparate phenomenon within one context of mechanism and flow.

OK, now we are ready to look at the evolved language called human emotion, psychophysically in relation to cellular wellness.

We have seen that emotions have dramatic electrical power, BUT WHAT IS THEIR LANGUAGE, and how does their power get into the cell?

Manfred Clynes, a brilliant musician, has measured in his magnificent book: "SENTICS, THE TOUCH OF THE EMOTIONS", the FREQUENCY SIGNATURES of human emotion. He has accomplished this replicably, and dramatically with computer averaging, and cross cultural differentiation. What he measured was the spectral complexion, the SHAPE, of a fingers muscle PRESSURE on a simple transducer IN RESPONSE TO EXPLICIT EMOTIONAL IMAGERY. We can learn from this work that emotions do have signature just like genes and words, and their language is as identifiable as a whale song. It's replicable. It is subject to frequency analysis, and its key lies in RATIO and ENVELOPE.

Imagine the difference in feeling between the orchestral conductors arm motion as harbinger of feeling, to the arm motion of love or anger. We feel

whats enveloped or woven in the caress of our lover.. the ringing muscles are carriers of feeling by shape. Tai Chi, or the Sacred Dance, move this blood of feeling consciously, exactly like the cell moves its magnetic blood by dancing in synchrony. The initiate moves his field of feeling beyond the body by coherence of focus; order can live wherever focus is strong. This is the difference between salvation and damnation.

Now at last we can know how the bloodstream of the field effect that is emotion/feeling can penetrate the cell wall. The same ratio (signature) that allows a wave nest to stand in its walk between frequencies, allows it to be a key in a lock when it reaches a destination of (morphic) resonance.

The cell wall is its envelope. Cellular boundaries are explicitly modeled as wave nests in "Structural Stability and Morphogenesis" by Rene Thom. See also "On Growth and Form ": D'Arcy Thompson, and of course "Laws of Form": G.Spencer Brown.

Another important source: "The Mind" of The Cells, or The willed mutation of Our Species" by Satprem..Institute for Evolutionary Research, NY.

Penetrating envelope means that the necessary key of ratio of carrier wave to envelope has been turned. In the cell this translates to a particular ratio between the genetic material of the invader to the field that is the long wave of the cell wall. EVERY BARRIER/LIMIT generates identity. This is the mind of the cell. The virus is the poser of the question to the cell: DO YOU KNOW YOUR NAME? (Your shape, your name is one and the same, it is the remembrance of the path of your service.) When the saint dies, he leaves footprints in the sands of light, trailing clouds of glory, a path up the ladder. Memory ringing in the universe, or the cell, is KEYS of resonance alignment (named identity) massaging/messaging up the path of frequency. The cell has no immunological defense against namelessness/ formlessness/ decay/ death, UNLESS it has been inFORMED by its body who it is.

And from whence in the body does the radiation of I AM identity arise, so

that the cells can hear the call?

The immunological mechanism is but a cloak, a vehicle, a carrier for the mindful focus, heartfelt center of gravity which launched the sparks from the central flame (pressure) in the first place. It is absolutely significant that the immunological nexus is the thymus which is like shield to heart.

So what are the psychological and emotional correlates to AIDS. Fear is resistance to flow/ heat/ destructive interference/ death. Joy is superconductivity/ecstacy/constructive interference, uplift, life.
On this spectrum of emotion, where does AIDS lie?

At every level, every disease produces symptoms which are pressure keyed to and indicative of their emotional roots. AIDS cells are punctured rafts, "helpless" victims with the wind (of bio-light) blown out of their sails. The cells privelege to select which light upon which it will feed is raped.

Let us look at the psyche of the AIDS "victim". The feeling of victimization and helplessness in front of the onslaught of dramatic world, IS FOUND TO PRECEDE the onset of the disease. Fear IS the mind killer.

In order for I AMness to radiate from the core of the body, the center of gravity, the heart /thymus, consciousness must know of and accept the shape and POWER of its service. This means concretely, the Amazing Grace gifts of the experience of EMPOWERMENT. This is a gift sparked between people when the reality of love embraces the fullness of its vital fluids (High Frequency/Potency Erotic Stuff). When love is empty, and the precious fluids are poured out in waste and abandon, then there is not enough nectar of coherence/ accumulated vital essences/ aggregates of the best of cell metabolism.... to remember why this not-so-whole spark separated from the flame in the first place. Immunologically this means that the cells are told by the core glands that there is not enough high frequency/coherence to message/massage the envelopes of the cells into the locked crystalline safety net of their resonant core of identity. Their

barrier/envelope hungering for high frequency light/food, begins to accept low grade viral imitations. When emotions are not well organized, keys aren't passed well to the cell, so the cell must broaden its accepted spectral bandwidth of admitted signatures until eventually... the self doesn't IDENTIFY the not-self.

So yes, yes... all this ideation about AIDS, what do we have here about predictions, and therapy for cure:

Prediction: since our body is the habit of our thoughts and feelings which we wear, any therapy for AIDS (and Cancer) which does not address the emotional/feeling habit underpinnings of the disease, will not be effective or lasting.

Prediction: AIDS and the thymus immuno-complex will be identified in their connection by frequency signature, at the level of RF (Radio-Frequency) and ultrasonic for the gene and gene/gland connection. Further the cell membrane memory and decision making process (self/not self) will be identified by frequency coherence at the higher end of its spectral window.

Therapy for AIDS:

The AIDS "victim" should be first asked to deeply meditate on the reason/purpose/service for continued life. It's name and shape must be gradually but clearly articulated. This may take place ultimately only in the empowering presence of unconditional love (human or otherwise). Alternately the decision to die could be made and respected from equal depth.

Meditations on the core identity of ones being can evolve toward coherence best in the presence of the classic spiritual proclivities:
..excellence of nutrition,
..excellence of habitat-natural fibre-natural building-natural ecology,
(cf Geomancy, Feng Shui)

To arrive at the conclusion to be implemented by ones glands, that life should be continued, requires intimate encounter with beingness worthy of being served. The same cascade harmonics which link cell genetics to emotions harmonics.. are those which weave on up through the genetic grail to our collective mind itself. This is the umbilical cord to nectar to nourish higher forms of cell life.

WHAT DOES ALL THIS SAY ABOUT THE CONNECTION OF THE HUMAN EMOTIONAL FIELD TO THE PLANET GRID/MIND?

The life threatening AIDS epidemic is richly appropriate and symbolic. It now leads us to learn exactly the mechanism by which the identity of collective mind is woven among us. Coherence is the loving order by which identity is assembled. Connecting identity learning from AIDS to GAIA mother planet birth as self/knowing, teaches us our next important principle:

COHERENCE AT ANY LEVEL IS COHERENCE AT EVERY LEVEL. That is to say that an envelope of coherence, or internal (loving?) cohesiveness, is immediately and necessarily propagated from its birth domain to every domain. Not only is a coherence envelope by its internal order, able to move between frequencies without memory loss; it must.

An example of this transference of momentum between scales is the way the coherent brain couples with the coherence of the planet. We have used this research paper as a foundation for an experimental study at Millard Fillmore Hospital Sleep Research Center, Buffalo. There we are in the process of showing that this significant coherence within the body can be taught using harmonic biofeedback. We are using EKG (heart) and EEG (brain). Since the ELF (Extra-Lo-Frequency) literature shows that the planets magnetic resonance dramatically affects mood and learning, we are further hypothesizing that phase coupling with these well described (SCHUMAN) ELF fields of the planet will enhance the beneficial effects taught. We shall add the neccessary feedback then to teach coherence to the planets "heartbeat". This is the beginning of our learning that collective

mind needs the critical path of geometric coherence into the biofields of the body.

Macro-cellular geometric arrays CRYSTALLIZING in the brain during EEG coherence, are exactly those being woven currently by the undulations of the planets techtonic grids. Our planetary grid harmonics and ley lines are dancing toward their alignment for planetary synchrony. The specifics of the change in relative axis between rotational and magnetic poles are profoundly indicative of the unfolding new wratchet angle "The Christ Angle", of planetary birth.

The discovery of significancant living body shapes on the land, and their unfoldment (cf "Loves Body" Norman O Brown, Dublins body in Joyce, and the Seven Hills of Rome, etc.) holds deep clues to what is "stalking toward Bethlehem to be born" in our planet. Learning emotional coherence is our intentional way of embracing this mind-rich planetary metabolism.

The biofeedback hardware with spectral synchrony learning, we are building is not required for you to try this charge building technique...

You pick your best day, after your best sleep, after your best meal, and your best love, and your best shower, in your best resting place, at the best time, with the most quiet, and your Yaqui place of power well in mind, and you do this...

You lie face up, with your neck not crunched up, and your arms and hands not touching your sides, with your head in the best direction for your place (North or East), and you breathe your best breathes, and you do your best relaxation technique.... and your breath begins to settle toward perfect damped sine wave stillness... and you feel your body begin to charge... and it tingles and itches... AND YOU DO NOT MOVE... and the charge builds and builds. The cells need regenerative capacitive charging from center out.. breath the gentle rhythmn to the inner words: I AM... and listen for instructions from deep inside...

Acknowledgements, footnotes:

The right hand cover illustration (Spiral Wratcheting Dodecahedra), and a portion of the spiraling cubes illustration are excerpted from "GEOMETRIC EXTENSIONS OF CONSCIOUSNESS" (Studies in Architecture) by Anne Griswold Tyng, from the magazine: ZODIAC #19 (my reprint did not show a date). Which came to me courtesy of Architects Henry McLean and Nader Ardalan (Nader is the author of the very beautiful: "Sense of Unity, the Sufi Tradition in Persian Architecture.)

The left hand cover illustrations were produced here at Crystal Hill Farm using the Mac and the Mac3d software (3 views of concentrically nested multiple dodecahedra compared to DNA).

The computer generated model of DNA seen from above was exerpted from the cover of an old "New Scientist" magazine. (I'm not sure)

The computer graphics for the nested spirals on the BLOSSOMING GENE page, and the EYE OF GOD page, I generated with the help of Dr. John Richardson on the graphics plotter at the MIT space lab.

The original context of these notes was inspired by the enthusiasm of Dr. Bruce Middendorf MD, Dr Ursula Anderson MD, and Diana Osborn homeopath, for whose support and encouragement I am very grateful.

WORDSTAR

PULSE, SHIVER.... SELF... NO OTHER...

A COMPRESSIBLE MEDIA, DIFFERENTIATION FROM HOMOGENY.

WHEN I AM EVERYWHERE, I AM NO(W)HERE.

I AM THE SHAPE OF FOCUS, I CAN HOLD AN IEYE WHEN I TURN ABOUT A CENTER OF FOCUS, FEELING A CENTER OF GRAVITY. EDDY TO VORTEX...A PATH WITH A HEART; ATTENDING INTENDING TO TURN THE TURN (CROSS THE T AND DOT THE EYE)

CATCHING MY SELF BOBBING BACK FROM THE CENTER OF THE TURN, FROM VERTEX VORTEX TO TORUS TORAH
(CALLED A FIGURE 8)

SEGREGATION OF MOMENTUM IN FOCUS I CALL: I)(NOT I
EYE)(NOT EYE
MEM)(BRAIN

(L) I T E R A T E WAVE FORM: MAKING A THRESHOLD FOR THE QUANTUM TO LEAP- THE WAVES CREST IS THE ILLUSION OF SEPARATENESS--- LONGING IS BORN FROM THIS, THE ONLY KIND OF LENGTH.

VORTEX CENTER... TO AS FAR AS EYE CAN TOUCH, I CALL UNI VERSE; FROM CENTER TO LIMIT IS ONE: THE BOUNDARY HOLDS ME SO THAT THE SHAPE OF THE BOUN(D)CE SHAPES ME. THE SIZE OF MY CENTER TO THE SIZE AND SPEED OF MY BOUND - I WAVE CONSTANTLY TO FINE(D) STRUCTURE.

TAKING COMFORT IN THE ROLE

OF MIND AMONG WAVES

TO SAY THAT A SUBSTANCE IS COMPRESSIBLE MEANS, AMONG OTHER THINGS, THAT IT CAN STORE MOMENTUM.

NOW STORING MOMENTUM MAY AT FIRST SEEM A TRIVIAL TALENT, BUT LOOKING AT NATURE AND STARS AND BEAUTIFUL BABIES... IS IN A SENSE DIRECTLY POSSIBLE BECAUSE OF THIS TALENT.

OUR WORLD IS CONCEIVED TO US AS BEING ONE OF WAVES. WE ARE GIVEN TO SEE THE ATOMIC WORLD AS PACKETS AND BUNDLES OF WAVES, LOCKED IN NEAT GEOMETRY... A PROLONGED EMBRACE OF THE PRINCIPLES OF WAVE COHERENCE.

>WAVE NATURE REQUIRES COMPRESSIBILITY.

>COMPRESSIBILITY REQUIRES MOMENTUM STORAGE.

>MOMENTUM STORAGE ALLOWS ORDER TO BE STORED AND RETRIEVED.

>A MULTIPLY CONNECTED WAVE SURFACE
ALLOWS FOR MULTIPLY CONNECTED INFORMATION STORAGE.

>THE TORUS (DONUT) IS THE PRIMAL MULTIPLY CONNECTED WAVE SURFACE.

>THE ATOMIC TABLE IS A POLYGONAL GROUPING OF TOROIDAL VORTICES..
AND IS ARCHTYPICALLY MULTIPLY CONNECTED.

>THE UNIVERSE IS UNINTERRUPTED AS WAVE SURFACE,
IS MULTIPLY CONNECTED,
AND IS HOLOGRAPHIC.

>THE UNIFIED COMPRESSIBLE MEDIA IS A UNIFIED FIELD.

THE KEY PHYSICAL QUESTION ARISING OUT OF OUR UNDERSTANDING OF UNIVERSE AS WAVE NATURE, IS ABOUT THE ROLE OF MIND OR CONSCIOUSNESS AMONG WAVES.

WE HAVE GRASPED THAT THE DIFFERENCES BETWEEN FUNDAMENTAL FORCES ARE NOT DIFERENCES OF "SUBSTANCE" BUT OF SCALE. (RATIO AS THE SACRED, SCALE AS THE PROFANE) THE PRINCIPLES OF WAVE INTERFERENCE ARE THE SAME FOR WAVES BETWEEN NERVOUS CELLS AT THEIR SYNAPSE AS THEY ARE FOR WAVES BETWEEN ELECTRON SHELLS AT THEIR QUATUM LEVELS. THEY CARRY THE SAME FORCES OF COMPRESSIBILITY AND INFORMATION STORAGE-- THROUGH THE SAME MEDIA--, THEY SIMPLY ACT ON DIFFERENT SCALES.

AT FIRST WE DON'T SEE THAT INFORMATION DANCING AT THE LEVEL OF THE ELECTRON SHELL, SHARES THE MUSIC OF THE DANCE BETWEEN SYNAPSES IN THE NERVOUS SYSTEM. THEIR "SCALES" ARE VASTLY OUT OF RANGE OF EACH OTHER.

HERE IS WHERE OUR CHALLENGE TO SEE MIND AMONG THE WAVES BECOMES INTERESTING.

INFORMATION/MOMENTUM/MIND GETS BETWEEN FREQUENCIES WHEN IT LIVES IN GEOMETRY'S COMFORTING WOMB (MOTHER-MATTER-MATER).

IF YOU PULL A COIL SPRING ON ITS ENDS, IT SHRINKS ONLY SLIGHTLY ON ITS SIDES. THUS A SMALL MOVEMENT CAN BE ENERGETICALLY LINKED TO A GREAT ONE.

THE PIEZOELECTRICITY OF QUARTZ IS ITS ABILITY TO CARRY ENERGY BETWEEN FREQUENCIES DOWN ITS SPIRAL (AS AN ASYMMETRIC COIL SPRING OF ELECTRONIC LIFE).

DNA'S ROLE IS COIL-SPRUNG LIKEWISE IN ITS ROLE CONNECTING THE CELL TO THE CHOREOGRAPHIC (AND BELLLIKE) RING OF ITS ETHERIC BODY.

THE BRAIN ALSO SITS RESONATING ATOP A SERPENTINE COIL OF GLANDULAR "CHAKRAS". IT IS ACOUSTICALLY PHASE LOCKED TO THE HEART DURING ECSTACY. THE PIEZOELECTRIC COUPLING OF THE BRAIN TO THE DANCE OF THE GLANDS TRIGGERS THE SECRETION OF THE PSYCHO-ACTIVE

HOMONES, THE LIQUID DOPANT TO THE BODY'S CRYSTALLINE SONG ELECTRIC.

THE SOUND TO ELECTRIC DANCE OF CONNECTEDNESS THUS BEGINS AS A PLACE TO TOUCH BETWEEN FREQUENCIES. IN THE BODY THIS PATTERN OF REACHING TO TOUCH BETWEEN SCALES OF PATTERN, IS DESIGNED TO GO FAR BEYOND JUST SOUND TOUCHING LIGHT. THIS IS THE AXIS OF EROS ACROSS WHICH THE FINGER OF GOD TOUCHES THE MATRIX OF MATTER THROUGH THE SPARK-GAP THAT IS MAN.. THE BRIDGE BETWEEN WORLDS.

WHEN SEEDS OF ORDER ARE PLANTED IN NOURISHING MEDIA, THEY CAN GROW BEYOND THE BOUNDS OF THEIR WOMB. MOMENTUM'S RUSH TO GROW ROUND THE VORTEX SEED WITH CENTER OF GRAVITY (GOOD HEART), KNOWS NO BOUNDS.

THE IMPLOSION THAT IS ECSTACY IS THUS GENERATED AROUND THE SEED THOUGHT, WHICH IS AT ONCE A FEELING, OF CONNECTEDNESS...LOVE...

EVERY BOND : A PHASE LOCK OF UNCONDITIONAL GIVING.

ATTENTION, FOCUS, OR MINDFULNESS, IS THE MEDIUM OF CREATION IN A MEDIA OF WAVE: ONLY THE WAVE WHICH CAN STAND AS WAVE, CAN STORE ITS INFORMATION/MOMENTUM. IN ORDER TO STAND, THE WAVE MUST UNCONDITIONALLY SHARE ITS MOMENTUM IN A GEOMETRY/MATRIX/WOMB. IT REQUIRES THE MIRROR OF ITSELF RETURNING BACK ON ITSELF TO CREATE THE WAVE NODE WHICH HAS THE ILLUSION OF STABILITY. MOMENTUM IN SYMMETRICALLY OPPOSING DIRECTIONS CREATES STABILITY/MATTER/MAYA.

IN ORDER TO ENTER THE ROTATIONAL-FEMININE-MATTER, LINEAR-MASCULINE-ENERGY MUST BE INITIATED IN THE SPIRAL DANCE (PATH) OF MOMENTUM GIVEN AWAY.. TO THE WOMB. THE PATH OF CONSERVATION OF MOMENTUM BETWEEN FREQUENCIES ON THE (T)LIGHT-ROPE BETWEEN ENERGY AND MATTER, LINE AND CIRCLE, IS THE GOLDEN MEAN SPIRAL.

FOCUS AND ATTENTION IS THE POWER TO HOLD A WAVE NODE (SEED) FIXED IN THE FLUX, LIKE CHOOSING THE NOTE(NODE) BY PUTTING A FINGER ON THE FRET OF THE GUITAR STRING. THE SHAPE OF THE WAVE WHICH IS GIVEN THE CHANCE TO STAND, IS CHOSEN BY THE PLACE(MENT) OF STILLNESS.

THAT IS THE ROLE OF MIND AMONG WAVES.

THE "MATTER" OF VISION

SENtience, SENsitive, SENsory, SCIENtific....
in some way feeling, knowing, and being have their roots in sensing or seeing.

People are related to words. They both get a sense of meaning from their family trees. A sense of meaning is a vision of relationship... to a universe or a universe of discourse. DIvision means to divide visions, while UNIverse means to unite in song.

Etymology gives us cosmology, and cosmology gives us etymology: "The Dialectics of Enlightenment": "Life that Brings Them Love, and Love that Brings Them Life". In a word they are brought together.

In the beginning was the word. And the word was with God. And the word was God.

Another name for the cosmos is "everything that can be named". So we name some thing. We embrace the relationships which its being embraces. How much of that being is wrapped up and resonant in our chosen name? How deeply can we feel when poured into names for shapes like SELF, WORLD, and GOD?

What is it to say that some words have more "feeling" than others? What is it to say that some words and languages are more "sacred" than others?

To womb do we ask these questions.

Mother, what's its name? What's in a name, Mother?
What name did you know before you knew your name? Mother.
From whence comes the naming of names? Mother.
What matters? This Mother: Mater. What's our name for the womb that bears us, in whose matrix our being and seeing is aborning? Matter. Mother.

Suppose the waves of nothingness and chaos are inspired to cross and wed. There is a "Sufi" saying about such a marriage: "Time Vibrates From Man, Space Emanates Through Woman". We say not wo-man, but rather womb-man. The waves would not die as they cross one another, instead they give each other in holy MATRImony, the gift of order in space. They create being from nothingness. The matter they hold together, becomes the rhythmn of vision. They find new life, in a life in common. The "laws" of order in space, of close packing, of geometry, are not sterile edict. They are a loving gift from Mother Nature, from the nature of Mother.

What IS born when you cross time and space? What is born when you cross a man and a wombman? A Mother is born: a matrix: on the cross of time and space.

Time and space have rhythms of their own, but they have no matrix until they cross. Man and woman may have life and rhythm alone. But when they are inspired to cross and wed, their web of energies embrace: then there is Mother. Wherever two or more are gathered in her name, there she is in the midst of them.

The vision of beauty that is Mother: "consecrates marriage and gives it a deeper meaning, a higher beauty". To be crucified on a cross of time and space holds no deeper meaning or higher beauty than to learn and embrace the gentle secrets in Mater's sacred womb:

The "mmmm" sound: to mmmmake together as in commmmunion, mmmmix, mmmmatch, mmmmend, mmmmate: when your lips mmmmeet.

The "aaaah" sound: the first sound, the first letter, the primal harmonic, the fundamental resonance from the root of the tongue: the alpha of the alphabet, absolute, all, Allah.

The "Ter" sound: to cross as in to turn, to tear. There's a

cross in the sound, just like the cross in the T we write, and the cross at the TOP of the TONGUE when we TALK.

So in MATER is met and made together the first vibration in the sign of the cross. And what God has joined together, let no man put asunder.

Motherhood is sacred, as her name is sacred. The folds of her loving embrace are the womb of our being. In the loving folds of sacred language in like manner, is embraced the womb of being. Across the threshold of symbol, in the roots of language, pulses the umbilical cord of consciousness.

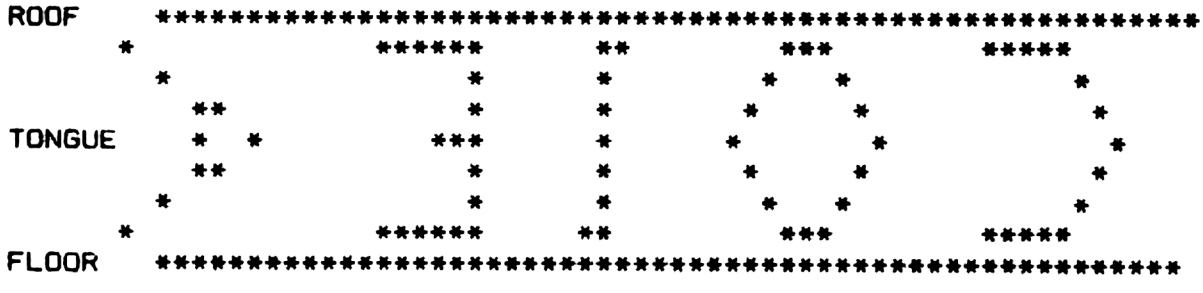
The distance from object to symbol, to you from me, as two from one flesh of Mater, is a distance the symbol gives, only in order that the separateness may be made one again. Though the bridges of symbol we learn to yearn to be one. When there is one there is no distance, but when there is distance there is length. Of length is longing born.

When the symbol participates in the reality to which it points, the reality becomes one with the symbol. Thus is language in principle both holy map and holy city : the realm of the sacred.

There's an identity, a oneness between the sound and the shape of our mouth when we say the word olive. In the "aaaah" the cup of the tongue shapes the orb of the fruit. The "L" of live separates the flesh from the stem, like the last resonance L we make with the end of the tongue. The "live" in "Olive" shapes the Length of the stem through which life is drawn. The sound pressure wave creates and couples matters shape as wave.

So ALLAH is the sound of the first and the last and the first again. Such are the limits of poseable harmonics of tongue shape upon vocal vibrance. ALLAH is the wave shape which embraces the beginning and the end and the beginning again. What is there when the serpent eats its tail?

The symbol is the mirror of the shape to which it vibrates. We place our tongue between the roof and floor of our mouths, thus creating a shape and a sound: a vowel sound: shaped like the letters they shape:



The sound embraces the shape in resonance: a ratio of harmonics, a relationship among vibration. Quantum mechanically repeating the process by which matter is structured, among the ether waves of space. Such is the relationship of the cosmos and the name, the naming of God, and the WORD... of God.

"Speak but the word, and we shall be healed."

"He has written our name in the stars, alongside his own."

The distance from the One to the Other, from subject to object, is as from God to man. It is only so close that the bridge of symbol gives froms Mater to Mother to Matter, a higher order and a deeper meaning. God in man is a holy WORD in the heart of consciousness.

The dawning of symbol and of consciousness separates self from other. Longing from length: the illusion of separateness.

Does it build a wall to give a name to a brother?

Are we something that can love a wall?

A living cell grows a wall in the ocean (primal soup). It's substance is still ocean, but its "cell" wall makes it a cell. And the cells soon make a man. And salt water runs in his veins. With the building of walls a man is born of ocean, as the waters of the womb spill out. Ma-ter/Wa-ter.

Earth man grows soon to learn that he must love his oceans like his Mother, or she will no longer nourish him.

The "selectively" permeable cell "wall" was an "illusion" of separateness between the ocean and the man. Separateness is passing fancy until men the tears of ocean, and oceans the tears of men, do see that the wall between them was but a gift they wove as a bond for each other, to learn to love one another. So the name shape of God man and his brother, is a gift they give to each other...

From the ocean of Mother, and the roots of oneness, men become the conscious fruits of tree of knowledge of good and evil. Adam means Adamic race. Ieve means symbol. Tempted by the serpent of eros and the beauty of Ieve, the Adamic race chooses the nourishment of fruit from the tree of knowledge. Man is forever condemned to know the difference between good and evil. We "fall" from the tree of innocence, to see one AND many. Ieve is the feminine receptive form called symbol which builds a wall around the state of innocence. But the wall of symbol is the necessary length (the power of abstraction), which allows us to see and to choose. To see IS to choose. At last to choose to see, through the embracing power and wall of symbol, the meaning of oneness that is Mater --- to come home trailing clouds of glory.

So this is the way we build a wall so early in the moring. Our senses evolve from the bottom up: touch, taste, smell, hearing, and seeing. Nourishment from higher frequency, finer vibration, comes "through the wall" at each step.

As the range of vision increases, the wall becomes more transparent. The bounds of responsiveness and selectivity widen.

As astronomers choose the eyes of X-rays their universe grows larger because they can see further. Such finer waves maintain their coherence, their information density in wave relationship, over longer distances, through denser obstacles. Our perception as a culture moves with them up this ladder of senasation. There are many ways we astronomers get to see with resolution more penetrating: telescope, microscope; interplanetary sattelite, biofeedback; looking without, looking within. Re-creation for the

children of Mater is playing with light.

Using higher frequency "words" to nourish awareness, our world grows larger. The bonds between cell walls weave stronger, from tissue, to organ, to body, to collective mind. The horizon of mind is a spectral window.

Sensual evolution is not the limitation of manhood, it is an invitation to Godhood.

It would be quite mean to think we were perfect and had stopped evolving. We would never see beyond the walls we've built. The reason for building the wall is to learn to take it down.

Part of the ever more penetrating coherence of presence of mind is finer awareness inside our body itself. Listening among quieted waves coheres the gross, and tunes the subtle. Emotions are standing piezoelectric resonance in plexi of nervous/muscular liquid crystal. Crystal is where one spectrum and dimension of wave field can couple and touch many others. Spiritual being uses this inner coherence for weaving collective mind among vast and even interplanetary bodies.

Thus emotion tastes and touches of wave field finer even than X-rays.... by coupling one orderly crystalline haromic to many above. These higher more ethereal planes of standing wave, stand woven around Mater. They're in the same continuous spectrum though, and it is Mother's nature to put them to work in us to "unify" her field.

So a friend, a plant, or a planet, does share its feeling directly with us. The physical media is emotion. We have our bodies "word" for it.

We are choosing new and old names for our new and old life: psychokinesis, aura, orgone energy, chakra, chi, chakti... Naming finer presence is an important linking of that to the self- conscious. The name is the symbol, building bridges for our conscious focus on this subtler inner life. Only with such bridges can our awareness bring us into harmony with our new being bodies. Just like a name for a new friend helps us to know and love him.

"Tuning" your etheric body in order to establish coherence and consciousness in wave forms of higher frequency... are less elegant words which say: MAKE PEACE AND HARMONY IN THIS WORLD, AND YOU WILL SEE ANOTHER.

Whatever spiritual heritage we embrace for SYMBOLic food, the meaning is the same. We become truly conscious of emotional energy, seeing and choosing to use it coherently and lovingly. In so doing we are giving a new and healing order to a body of resonance around us. It is called the Kesjahn body, personal magnetism, aura, healing presence. Many names forge one link to "presence of mind" which we have around our being with increased awareness. It is a wave form aborning in a world of finer vibration and wider vision.

Increasingly our experience tells us that these "bodies" of resonance can live on without this "Mat(t)er" body. What would be the sense if a child of Mother could never leave the womb.

We are told that when the Mater body IS left behind, a "Silver Cord" at first connects the material body to the higher

one. This umbilical cord of death/birth, is like the T of the cross through Tomb to womb.

Man's emotion in a life of music, are as an Aeolian harp of Mater, blowing in the wind of spirit. When the tension and the wind find a harmonious resonance, the music blows gently out beyond the valley and the harp.

We find soul food in the WORD rhythmns of scripture, art, music and dance, upbraiding the vertigo of separateness with the harmony of vision and oneness. Those rhythmns of vision daily recreate a tapestry of peace and mind. United by willful attention to every generous thought and pure emotion, they weave silver threads of lighted being around the loving matrix of Mater.

Pray in the name of Mother, to learn the secrets of Mater from the illumined folds of her form. For the children of light are the matter of vision. And the beloved WORD of this Mother, is the gift of vision to her children which folds them gently home to her. The Mater of Vision.

BIOLOGICAL RESONANCE:
LINK OF TISSUE AND ORGAN,
LANGUAGE OF THE DUCTLESS GLANDS AND OF EMOTION.

Literature abounds with metaphor about the "ringing of the heart" and the various pulsings and throbbings of the throat, solar plexus, and sex organs. Our subtler feelings seem intimately wrapped up with such "vibrations" in the human condition. We find it natural to express the impression of emotion in terms of the varied waves in the body.

Thus let us consider the path of acoustic and electrical waves among the cavities of the body, with a view toward unraveling a bit of the mechanism of our "erotic" psychology. Emotion is not detached from physiology, it is a dramatic interface to field and feeling. It may be instructive and not simplistic to weave our vision of emotion with biological standing waves of light and sound. We do not collapse the intentionality or destroy the richness of an experience if we embrace it by description in metaphor which is deep enough in which "to find ourselves by losing ourselves".

During deep relaxation the heart beat settles to a particular set of harmonics which turn out to be tuned to a particular aspect of physiology. The pressure pulse of blood goes speeding down the main aorta toward the dividing arch(called "bifurcation") above the legs. At the inverted Y a certain portion of the momentum of the pulse wave is rebounded back toward the heart. During relaxation the timing of the heart beat will be such as to exactly allow this partial returning pressure wave back up the aorta, to reinforce and enhance the next beat. It is as though the main blood vessel is a guitar string with the heart and arch as the end nodes of the standing wave. Of course this is an exaggeration since only a small portion of the hearts

actual pulse momentum returns to enhance the next beat. But the principle is vastly important. The body has chosen the natural way to optimize its energetics via natures classic storage media: the standing wave.

The significance of the natural resonance of the heart physiology extends far beyond the chest. The standing wave along the main aorta results in a relaxation resonance of the heart system at around seven cycles per second. This sympathetic resonance developing in the chest cavity results in a measureable shaking of the whole body. In fact the body can be compared to a multiply stringed musical instrument whose key is set by the heart.

This resonance in the sound or acoustic spectrum is measureable on a sensitive accelerometer. We find that the resonances which develop in the brain cavity during relaxation exactly entrain or phase lock with the acoustics of the heart.

A detailed description of this phenomena is found in "Stalking the Wild Pendulum" , author: Bentov, publisher: Dutton.

In order to understand the electrical, metabolic, and emotional significance of this acoustic resonance entrainment in the body, it is useful to consider the mechanism called piezoelectricity.

It is a well known principle in crystallography, wherein acoustic or sound frequency pressure waves exchange energy and couple with electrical waves. This phenomenon is made possible by the orderly matrices of the crystal in which the acoustic waveform can macro-coherently overlay the much finer electrical waveform. The alternate common nodes of the standing wave form don't exchange much energy at only one or two common pressure points, but because of the pattern of the matrix, the superimposition of disparate but repetitive node patterns forms a significant field coupling along the entire structure of these ladders of life...

the piezoelectric helix in quartz crystal,
the helical dance of dna choreographed cell division,
the helical acoustical-electric-glandular "chakra" emotional ladder of the body.

As a geometric archetype,
this is a mechanism of connectedness. It is a spark gap from bioilogy to collective mind and spiritual presence via field entrainment- ....increasing in information (vision) density.
and peace.

C R Y S T A L S T R U C T U R E
THE K E Y
TO AN
I N S T R U M E N T THAT H E A L S...

WE ARE ADVISED TO RECALL THAT OUR NAMES FOR CRYSTAL STRUCTURES ARE OUR ATTEMPT TO EMBRACE THEIR SHAPE AND QUALITY THROUGH SYMBOL. IT IS OUR CHALLENGE TO DO MORE THAN LINK A LIST OF QUALITIES WITH A LIST OF NAMES FOR CRYSTALS. WE SHOULD ASK WHAT ARCHETYPE OF GEOMETRY AS MOLECULE, PRODUCES A SERVICE FOR OUR TECHNOLOGY-SPIRITUAL OR ELECTRONIC. IT IS THE GEOMETRY OF WAVE --AS PROTON,ELECTRON,,MOLECULE,,,CRYSTAL-- WHOSE MORPHOLOGY (SHAPE) DESIGNS A PATH FOR OUR NEEDFUL WINDOWS OF CONDUCTIVITY.

IT IS USEFUL TO DESCRIBE THE ATOMS ELECTRICAL FAMILY IN TERMS OF OUTER ELECTRON SHELL ARRAY.. ELECTRON VALENCY.. BUT MUCH IS TO BE GAINED IN VISUALIZING THE WAVE SHAPE WHICH THAT IMPLIES. THE VERY POETIC AND AT FIRST SEEMINGLY ROMANTIC VISIONS OF ATOMIC DANCING FROM "OCCULT CHEMISTRY" , CLAIRVOYANT STUDIES BY LEADBEATER, HAVE SINCE BEEN JUSTIFIED TO SUB-ATOMIC PHYSICS IN: "PSI PERCEPTION OF QUARKS" BY PHILLIPS (BOTH THEOSOPHICAL PRESS).

OXYGEN IS DESCRIBED BY LEADBEATER AS HELICAL COIL. OXYGEN HAS A COLUMNAR AND CAPTIVATING ROLE AS THE COIL-SPRING OF LIFE IN WATER, IN DNA, IN PHOTOSYNTHESIS, IN CELL METABOLISM, IN QUARTZ. THE QUARTZ CRYSTAL HAS SCRYED THE WITCHCRAFT AND ELECTRONICS OF OUR WELL TIMED WORLD. QUARTZ'S ATOMS, SiO2, ARE ARRANGED CUBICALLY...AND THE CUBES SEEN HEXAGONALLY FROM THEIR TIPS, ARE ARRANGED HELICALLY, SENT IN A SENSE, IN A WIDENING GYRE BY THE VERY WAVE SHAPE OF OXYGEN ITSELF.

THE FUNCTION OF THE HELIX, AS WAVE-SHAPE MORPHOLOGICAL ARCHETYPE, IN DNA, IN QUARTZ, IN THE CHAKRAS, IN OXYGEN, IS AS THE CHOREOGRAPHY OF A RITUAL DANCE WHICH BRINGS EMOTION TO LIFE. THE ROTATION OF SPEED-ELEGANCE-AND INFORMATION DENSITY, IS PERMITTED TO WRATCHET GRACEFULLY TOUCHING IN TURN THE RUNGS OF A JACOBS LADDER BETWEEN THE LEVELS OF LIFE. THE HELICAL SPRING LIKE ASSYMMETRY IS THE LINK BETWEEN FREQUENCIES.. SOUND TO LIGHT..PIEZO(FIRELIKE)ELECTRIC.

UNDERSTANDING THE HELIX SHAPE AS THE TOUCH TONE/JACOB'S LADDER WHICH KEEPS WAVES COHERENT IN THEIR EROTIC PASSION TO DANCE BETWEEN FREQUENCIES IS AS SIMPLE AS ROLLING A CHILDS SLINKY(SPRING) DOWN A STAIR. THE MOTION OF THE MIDDLE IS CARRIED THROUGH THE STOP POINTS ON THE ENDS. THERE IS A MOMENT WHEN THE SLINKY IS SITTING STILL ON THE NEXT STEP, YET SOMEHOW IN ITS COIL, IT IS REMEMBERING ITS PATH, AND CONTINUES PAST THE STILL POINT KNOWING ALWAYS DIRECTION AND PHASE.

NEXT TAKE YOUR SLINKY COIL AND JUST PULL ON BOTH ENDS. NOTICE THAT AS YOU PULL EVENLY ON THE ENDS TO LENGTHEN IT, YOU ARE ALSO PULLING IN ON THE SIDES (IT GETS SLIGHTLY SKINNIER). THE MOTION OF THE SIDES INWARD TOWARD CENTER IS IN PERFECT TIMING AND PERFECT RATIO OF SPEED TO THE MOTION OF THE ENDS AWAY FROM

CENTER. A SMALL MOTION NARROWING THE COIL IS ELEGANTLY "PHASE COUPLED" IN SPEED AND LENGTH TO A GREAT MOTION LENGTHENING THE COIL. RESULT: LEVERAGE ACROSS THE LADDER OF VELOCITY (WHOSE INVERSE IS FREQUENCY)... REQUIREMENT: SYMMETRY ON ONE AXIS
-->CROSS<--- ASYMMETRY ON ANOTHER... TOPOLOGICALLY: A HELIX "SPRINGS" TO LIFE.

CARRY THIS SAME VISUAL EXPERIMENT (ON WHAT HAPPENS TO THE SIDES OF A SPRING WHEN YOU LENGTHEN IT) TO DNA, AND TO SERPENT EROS EMOTION ROTATING BETWEEN THE GLANDS.

OXYGEN (PRIMAL ATOMIC HELIX, PER LEADBEATER) IS THE COIL OF LIFE, LITHIUM IS LIGHT'S STAFF OR ROD.

DESCRIBING LITHIUM, LEADBEATER: "LITHIUM IS A STRIKING AND BEAUTIFUL FORM, WITH ITS UPRIGHT CONE OR SPIKE, ITS EIGHT RADIATING PETALS AT THE BASE OF THE SPIKE, AND THE PLATE-LIKE SUPPORT, IN THE CENTRE OF WHICH IS A GLOBE ON WHICH THE SPIKE RESTS. THE SPIKE REVOLVES SWIFTLY ON ITS AXIS, CARRYING THE PETALS WITH IT: THE PLATE REVOLVES EQUALLY SWIFTLY IN THE OPPOSITE DIRECTION."
THERE FOLLOWS MANY CAPTIVATING DRAWING OF TEARDROPS AND VORTICES AND HEART SHAPED "ANU" WHOSE OVERALL GEOMETRIC HYDRODYNAMICS (WHICH IS TO SAY, ATOMIC SHAPE) PRODUCES THE WAVE STABILITY WE CALL... LITHIUM.

THIS INTENTIONALITY RICH WAVE STUDY, COMPLEMENTS OUR TRADITIONAL VIEW: "LITHIUM: THREE PROTONS, TWO CAPTIVE SUBSHELL ELECTRONS, AND ONE FREE OR VALENT ELECTRON". THE LATTER LANGUAGE YEILDS DETAIL & RIGOR; WHILE THE FORMER UNVEILS CONTEXT,INTENTION, AND A RELATIONSHIP TO MIND.

COMPARE WITH A THIRD LEVEL OF SYMBOL SYSTEM DESCRIBING THE SAME SUBSTANCE: LITHIUM, COURTESY HAROLDINE,LITHIUM LABS, SAN LUIS REY,CA. : "IN ESOTERIC WRITINGS, IT'S STATED THAT PLANET NEPTUNE RULES THE 3RD EYE (6TH CHAKRA) AND ITS METAL IS LITHIUM. THIS OPENS THE PATHWAY TO HIGHER CONSCIOUSNESS OR MORE 'HUMNA POTENTIAL RELEASE'. LITHIUM IS AN ESSENTIAL CONSTITUTE OF EVERY CELL IN A HEALTHY HUMAN BODY. IT IS UTILIZED IN THE BUILDING FIBRE OF CELL WALLS OF EVERY CELL AND IS ONE OF THE MAIN INGREDIENTS IN THE COVERING SHEATHS OF OUTGOING NERVE ENDINGS. LITHIUM IS A PRIMARY INGREDIENT OF CROSSOVER FROM ETHERIC TO PHYSICAL IN HUMAN FORMATION ... "

THUS WE HAVE MANY POTENT CLUES TO THE "HEART" (ANU?) OF THE "MATTER" OF LITHIUM. AT FIRST THERE SEEMS TO BE DISPARITY IN THE CATEGORIES OF LANGUAGE USED TO EMBRACE LITHIUMS QUALITIES, YET THERE IS A HAUNTING CONNECTEDNESS: CONDUCTIVITY.. A SPIKE (OR TEARDROP SPLASH) ON A GLOBE ON A SPINNING PLATFORM...
A SINGLE FREE ELECTRON..A SINGLE SPIKE..THE CONDUCTIVE COVERING SHEATH OF OUTGOING NERVE ENDINGS.. THE (SPARK GAP?) CROSSOVER BETWEEN ETHERIC TO PHYSICAL.. HMMMM AMMUSE ING

A NEW SCIENCE OF LIFE: SHELDRAKE: THE POWER OF MATTER AND IDEA TO REPLICATE DEPENDS ON ITS "MORPHIC RESONANCE".. ITS PERFECTION AS WAVE SHAPE-SEED- IS ITS POWER TO PROPAGATE. THE RESONANCE OF PURE SHAPE AS POWER, POWER TO SERVE. WE EMBRACE THE SHAPE THROUGH SYMBOLS THAT ARE REAL/SACRED/PHYSICALLY RIGOROUS, AND THUS WE ARE EMPOWERED TO MAN IPULATE THE SHAPE. WE CAN THEN SEND OUR DREAMS AND ELECTRONS TRAVELING DOWN THE RITUALLY INITIATORY CORRIDORS OF THE CRYSTAL.

THE WAVE SHAPE OF THE CRYSTAL STANDS BECAUSE ITS NODES-POINTS OF FOCUS- (ETHERIC COMPRESSION) ARE IN GEOMETRIC ARRAY. (THAT IS TENSOR EQUILIBRIUM.. GUITAR STRING STANDING WAVES WHOSE THREE DIMENSIONAL PUSH AND PULL RESULT IN A GLORIOUS STAND--OFF). ATTENTION WHICH PLACES THE FINGER ON THE GUITAR STRING CHOOSES THE NOTES,, THE NODES,, TUNES THE WAVE. THUS ATTENTION, A MECHANISM OF FOCUS, IS THE ONLY INSTRUMENT OF CREATION A UNIVERSE NEEDS WHEN MADE OF WAVES. THE CRYSTAL IS A GEOMETRY OF OUR ATTENTION, WHOSE TENSION STANDS IN FOCUS AS WAVE. IT'S ELEGANCE AS SHAPE WHICH CAN STAND, RE MEMBERS FOR US.. OUR MINDFUL WOMB IN MATTERS FOLD.

TO BE CRYSTAL CLEAR;
TECHNO-LOGOS

CONTEMPORARY DEVELOPMENTS POINT TOWARD RADICALLY NEW WAYS OF USING TECHNOLOGY AND "GADGETS" IN THE NEAR FUTURE. OFTENTIMES SUCH MATERIAL DEVELOPMENT SEEMS MORE PART OF A PROBLEM, THAN PART OF A SOLUTION.

THE MEANING OF TECHNOLOGY IS SOMETHING WHICH RESPONSE-ABLE PEOPLE COME MORE AND MORE TO GRAPPLE WITH. ESPECIALLY AS THEY DEVELOP DEEPER PERSONAL AND COLLECTIVE CONVICTIONS ABOUT THE SIGNIFICANCE OF SPIRITUAL GROWTH AND CULTURAL EVOLUTION.

QUANTUM LEAP FOR A CULTURE MEANS A BREATHTAKING EXPANSION OF VISION TO SEE THE SPIRITUAL AND COSMIC SIGNIFICANCE/SERVICE OF THE HUMAN CONDITION. ONE SCIENTIFIC FOCUS OF THAT CULTURAL LEAP IS MORE RESOLVED VISION OF DIMENSIONAL RELATIONSHIPS IN FUNDAMENTAL PHYSICS AS "DANCE IN SYMMETRY OF WAVE" FOR ONE UNIFYING SUBSTANCE.

THE "UNIFIED FIELD" AS SYMBOL/SEED IS A WOMB TO NOURISH A UNIFIED CONCEPTION OF THE ROLE OF MIND--LOCUS OF FOCUS-- AMONG MATTERS WAVE.

IN THE FIELD OF HIGH ENERGY PHYSICS, CONCEPTUAL HORIZONS FROM METAPHYSICS VS. PHYSICS.. ARE MUTUAL LIMITATIONS WHEREVER THEY ARE NOT MUTUAL SUPPORT.

EMOTIONAL EXPERIENCE IS EMBRACED IN THE CHALICE OF CONSCIOUS, WILLFUL FOCUS; WHOSE EFFECTS ARE OBSERVED AND MEASURED PHYSIOLOGICALLY AT ELECTROCHEMICAL RESONANCE PATHWAYS AND PLEXI WITHIN THE BODY. ECSTACY IN THE DANCE IS A FEELING YOU HOLD

GENTLY AS YOU WOULD A LITTLE CHILD. CONSCIOUS FOCUS IS A PRECISE AND POWERFUL PHYSICALLY CREATIVE ACTIVITY WHOSE ENERGETICS ARE LITERALLY MIRRORED IN OUR TECHNICAL SENSE OF OPTICAL FOCUS.

SUCCESSIVE HARMONIC RELATIONSHIPS OF RESONANCE ARE MEASURED PIEZOELECRICALLY BETWEEN THE BODIES GLANDULAR CENTERS DURING INTENTIONAL RELAXATION. MINDFUL STILLNESS GROWS ECSTATIC AND TEARFUL. THIS BIOFIELD COHERENCE IMPLOSION BECOMES A PHASE COUPLED EMOTIONAL SYSTEMATIC INTERACTION OF GRAVITATIONAL AND THUS PLANETARY SIGNIFICANCE: A HUMAN BRIDGE MAKING A RAINBOWLIKE JACOBS LADDER TO HIGHER ORDERS OF DIMENSIONAL COMPLEXITY (MIND).

ARTICULATING WAVE GEOMETRIC MODELS OF DIMENSIONED TIERS OF FOCUS, FORGES NEW CONNECTEDNESS BY CONVERGING THE ILLUSION OF SEPARATENESS OF OUR MANY MYTHIC SYSTEMS.

MORE ENERGETIC "VIBRATIONS" OF RELAXED AND RESONANT MINDS, NECESSARILY HAVE THE POTENTIAL TO DEVELOP MORE EXTENSIVE, COHERENT, WAVE FIELDS, WHOSE HIGHER DENSITY IN MATRIX/INFORMATION RELATIONSHIP (MULTIPLY CONNECTED TOPOLOGY AS HOLOGRAM) ..IS.. GREATER ABILITY TO RESPOND, AND THUS MORE CONSCIOUS.

THE LANGUAGE OF WAVE IS AT ONCE PSYCHOLOGICAL AND PHYSICAL. IT IS IN A SENSE THE MECHANISM OF PATTERN-WOMB FOR INFORMATION WHICH IS BEHIND LANGUAGE AND MATTER. WAVE GEOMETRY IS THE "PSYCHIC" AND "QUANTUM" LANGUAGE OF SYSTEMATIC INTERACTION INTO HIGHER ORDERS OF ORDERING POTENTIAL. PURE SYMBOL, BORN OF WAVE, ARE THE HISTORY OF LANGUAGE AND THE CURRENCY OF THE EVOLUTION OF CONSCIOUSNESS. AND AT THE SAME TIME THE LAWFUL KEY TO, AND EXPRESSION OF, GROUP THEORY, UNIFIED FIELD THEORY, AND THE MOTHERS MILK OF A COLLECTIVE MIND ABORNING.

THE LANGUAGE OF WAVE GEOMETRY EMPHASIZES THE VISUAL ASPECTS OF REPRESENTATIONS ALREADY WELL DESCRIBED MATHMATICALLY. WAVE GEOMETRY SUPERPOSED AND JUXTAPOSED, YET ALWAYS TOUCHING CENTER, IS (LIKE TAI CHI) SYMBOL SO PURE THAT IT PARTICIPATES DIRECTLY IN THE REALITY TO WHICH IT POINTS.

THE POWER TO ABSTRACT, THE POWER TO CONTAIN IN A CHALICE THE REPRESENTATION OF THE OBJECT OUTSIDE THE CHALICE, THE POWER TO EMBRACE WITHIN A MEMBRANE THE RATIOS OF ORDER MICROCOSMICALLY ECHOED FROM WITHOUT THE MEMBRANE.... THIS IS THE POWER TO KNOW/TO CONCEIVE/---ULTIMATELY---TO CREATE. THIS IS THE POWER WE GIVE TO THE COMPUTER, THE HOLOGRAM, THE LIQUID CRYSTAL MIND, AND TO ANY HEART WHICH IS POSSESED OF THE BLESSED CENTER OF GRAVITY NAMED "GOOD INTENTION".

SYMBOL SYSTEM IS OUR LOOKING GLASS, OUR MIRROR, OUR SELECTIVELY SEMI-PERMEABLE MEMBRANE OF CONSCIOUSESS.

AS OUR TECHNOLOGY COMES TO MIRROR NEW INNER LEVELS OF DEVELOPMENT, IT BEHOOVES US TO PEER CLOSELY "THROUGH THE LOOKING GLASS". MAN / MACHINE / SYMBOL, LET US NOT BE DUALISTIC ABOUT WHICH IS THE PRODUCT OF WHOSE EVOLUTION.

LET US BE CRYSTAL CLEAR.

ANCIENT CULTURES OF OUR PLANET HARNESSED ENERGY SOURCES USING CRYSTALS, IN A WAY NOT UNDERSTOOD TODAY.

THE PAST IS VERY HUMBLE, IT CLAIMS REALITY ONLY IN SO FAR AS ITS MISTAKES ARE REPEATED IN THE PRESENT. AND THAT IS THE SECRET WHISPERED TO THOSE WHO WOULD SEE THE FUTURE MIRRORED IN THAT REALITY.

A WAVES OCTAVE HIERARCHY OF FREQUENCY, REFLECT HIERARCHY OF ENERGY, ORDER, HEALING, AND MIND.

AND WHEREIN DOES THE LIGHT OF THESE FACETS FOCUS MOST DIVINELY? IN SOMETHING CALLED "THE TEMPLE OF THE LORD", BETWEEN THE TEMPLES, AND (THAT IS: AND THAT IS) IN SOMETHING CALLED PURE CRYSTAL.

THEREFORE IN THE FOCUSED PURITY OF GOOD INTENTION, A WISH TO LOOK INTO ATLANTEAN "FIRE CRYSTAL" : "THE TUAOI STONE", IS A WISH TO LOOK INTO THE DEPTH AND BEAUTY OF OUR OWN BEING... THE CRYSTALLINE MECHANISM OF MIND.

GRAVITATIONAL WAVE AND FIELD, ARE GEOMETRIZED IN A MANNER ANALOGOUS TO THAT OF ELECTROMAGNETIC PHENOMENA. THE DIMENSIONAL LEVEL OR ENERGY GRID DISTANCES OF GRAVITATIONAL GEOMETRIZATION IS ORDERS OF MAGNITUDE REMOVED FROM THE ELECTROMAGNETIC. PLANCK-LENGTH UNITS (1.62 X 10 -33 CM) AND THE SCHWARZSCHILD RADIUS CONCEPT DESCRIBE A BRIDGE/BARRIER/THRESHOLD BETWEEN TWO "FUNDAMENTAL" FORCES OF NATURE (GRAVITY AND ELECTROMAGNETISM).

THE KEY AND MISSING LINK, BEING THE (GEO)METRIC MECHANISM OF "INTERDIMENSIONAL" RESONANCE BY WHICH ELECTROMAGNETIC AND "GRAVITIC" FIELDS SYSTEMATICALLY INTERACT.

RESOLVING THE RELATIONSHIP BETWEEN TWO "FUNDAMENTAL" FORCES IN PURE WAVE GEOMETRIC TERMS....RESOLVES....INTO THE QUINTESSENTIAL ARCHTYPE OF THE MEANING OF DIMENSION.

ONE WAY OF CONSIDERING THIS PROBLEM WHICH AT FIRST SEEMS DIVERSE, IS TO VISUALIZE A C O N T I N U O U S SPECTRUM (A UNIFIED FIELD) PROCEEDING THROUGH AND ABOVE WHAT WE HAVE LABELED ELECTROMAGNETIC PHENOMENA. THE DIFFERENTIATION OF ENERGETIC ATTRACTIVE, REPULSIVE, AND BONDING RELATIONSHIPS INTO QUALITATIVELY DISTINCT "FORCES OF NATURE", WE BEGIN TO THINK OF AS A NATURAL SELECTION OF CONTINUOUS FREQUENCIES INTO HIERARCHIES OF ORDER.

OUR CULTURES SEEMINGLY DIVERSE LANGUAGES OF COSMOLOGY ARE RICH AND REPLETE WITH STORY OF SPIN AND VORTEX AND COIL FORMATION. THE FUNDAMENTAL FORCES ARE DISTINGUISHED BY SEQUENTIAL LEVELS OF ROTATIONAL PERPENDICULARITY. SUPERPOSED PRIMARY, SECONDARY, AND TERTIARY SPIN COIL FORMATIONS DIFFERENTIATE THE ATTRACTIVE-REPULSIVE ORDEING MATRICES OF THE RESPECTIVE WAVE FORMS WE CALL HOME.

THE LANGUAGE OF WAVE GEOMETRY IS NOT AN ANSWER TO THE TECHNICAL CHALLENGES OF FUNDAMENTAL PHYSICS, IT IS HOWEVER, A VISUALLY USEFUL SYNTHETIC INSIGHT AND TOOL.

MODELS OF TOROIDAL ROTAION, ARE PRIMALLY MULTIPLY CONNECTED (AND THUS HOLOGRAPHIC) TOPOLOGY. TOROIDS ROTATE CONCENTRICALLY AND HIERARCHICALLY DISCRETELY AND DIMENSIONALLY CONTAINED ONE SET INSIDE ANOTHER. DIMENSIONAL RELATIONSHIPS "GRAVITATE" TOWARD VISIONS OF SEQUENTIAL ORDERS OF ROTATIONAL RELATIONSHIP-- GENERATING AN EVER EVOLVING SERIES OF "PERPENDICULAR" AXES EACH PENETRATING INTO AN INCREASINGLY COHERENT AND MULITPLY PHASE CONNECTED, FIELD OF WAVE MATRIX: A "MATER"IAL WOMB.

THE FORM OF A WAVE PICTURE IS RESOLVED, DEFINED, AT EACH DIMENSIONAL LEVEL BY THE CYCLIC PERIODICITY OF ITS CRYSTALLIZATION AND DISSOLUTION: THE ARRIVAL AND DEPARTURE IN DANCE TIME OF THE MOMENTUM OF THE WAVE AT ITS NODE/ANTINODE.

THE SIMULTANEOUS DIMENSIONAL SOLUTION OF OUR FUNDAMENTAL CONSTANTS (C,G,h) YIELDS NOT ONLY THRESHOLD IN THE RESOLUTION OF LENGTH- THE PLANCK LENGTH-, BUT ALSO A RELATED FUNDAMENTAL UNIT OF TIME. DIMENSIONAL RELATIONSHIPS ARE ESSENTIALLY REQUIREMENTS OF WAVE MOMENTUM DISTRIBUTING ITSELF DISCRETELY NESTED IN THE WOMB OF ARCHETYPAL GEOMETRY... VIA FREQUENCY, PHASE AND ROTATION.

THESE ARE THE "AT FIRST IN PRINCIPLE" LAWS OF GENESIS WHICH LIE AT THE HEART OF BOTH GEOMETRIZATION AND QUANTIZATION: ROTATION, PHASE, AND TENSOR EQUILIBRIUM. THE GYROSCOPIC INERTIA OF DENSITY WE KNOW AS MASS/GRAVITY/TIME IS CONCEIVED IN THE FRQUENCY-SPEED, FLOW DISTRIBUTED, WOMB OF ENERGY-FLUX-SPACE.

ANY SEED (PHOTON...ELECTRON) WELL WOVEN IS SUFFICIENT HOLOGRAPHICALLY TO BE EVERY SEED. IN OUR O N E SUBSTANCE, THE UNIVERSE IS CONTAINED AS A HOLOGRAM EVERYWHERE IT IS FOCUSED.

AND SO IN THE STRANGELY ROOTED ETYMOLOGY OF PHYSICS, WHY IS EVERY VERTEX A VORTEX? HOW IS THE NATURE OF THE VERTICAL DEFINED BY THE VORTICAL?

AT THE CENTER OF A DONUT, OR SMOKE-RING, WITH AN INFINITELY SMALL CENTER HOLE, LIES A VORTEX VERTEX OF FOCUS. THE HEART AND CENTER OF "GRAVITY" OF THE PRIMAL STABLE HYDRODYNAMIC FLUX...CALLED TORUS.. TOURBILLION.. SCROLLWORK OF LIGHT. THE TAROT DESCRIBES THE TOURBILLION AS THE HIGHEST AND DEEPEST SECRET OF ALL ANCIENT WISDOM. IN THE ORIENT THE TOURBILLION WAS AN ORNAMENTAL FIREWORK THAT EMERGED AS A SCROLL. IN FRENCH IT MEANS WHIRLWIND. IN A TOURBILLION OR TORUS, LIGHT BECOMES THE PEN AND INK OF GODHOOD...THROUGH THE ULTIMATE CREATIVE INSTRUMENT: FOCUS.

FOR US LIKE DOROTHY IN OZ, THE WORLD ON THE OTHER SIDE OF THE RAINBOW (ONE OCTAVE), IS REACHED THROUGH A TORNADO...
"A TWISTER!"

A VORTEX THEORY OF MATTER IS AT LEAST AS OLD AS DESCARTES:

"CELESTIAL VORTICES". PERHAPS THE DIFFICULTY OF MATHEMATICAL DESCRIPTION OF THE VORTEX HAS HINDERED ITS EFFECTIVE DEPLOYMENT AS A MODEL.

IN MATHEMATICS, "THE LANGUAGE OF RIGOR", IT IS NOT SIMPLE TO DESCRIBE A VISION... OF THE ROOTS OF QUANTIZATION SIMULTANEOUS WITH GEOMETRY. WAVE FLOW PATTERNS MOVE BETWEEN LEVELS IN A GOTHIC ARCHITECTURE OF SPIRAL VORTICES, TOROIDAL NESTS. VERY PRETTY. BUT NOT IMMEDIATELY YIELDING TO THE POWERFUL AND ATOMIZING, INTENTIONALITY COLLAPSE, CALLED MATHEMATICS.

HOW DOES ONE VORTEX SYSTEMATICALLY PHASE COUPLE AND LOCK IN, A WHOLE SERIES OF GEOMETRY?

WE ARE IN A SENSE ASKING A HYDRODYNAMIC QUESTION ABOUT WHAT IS A BOND.. ANY BOND. WHAT ARE OUR BEST BONDS? THEY ARE STABLE, AND NOBLE...LIKE GOLD. WHAT DOES GOLD THEN MEAN? MATTER IS A FAIRY TALE WITH A GOLDEN MEANING.

IS AN ARITHMETIC FIBONNACCI SERIES AND YET ALSO A GEOMETRICAL PROGRESSION. PLOTTING THIS WE HAVE THE SACRED SPIRAL OF THE GOLDEN MEAN. ITS EQUATION EMPOWERS e THE BASE OF THE NATURAL LOGS, AND pi. THE GOLDEN MEAN IS FOUND CLOSELY BY 7/5 OF pi/e.

EVERYWHERE WAVES MEET THEY GENERATE HETERODYNES, THAT IS WAVES OF FREQUENCIES THE SUM, THE DIFFERENCE, AND THE MULTIPLES, OF THE PARENTS. BECAUSE THE GOLDEN MEAN SEQUENCE ALLOWS BOTH ADDING AND MULTIPLYING (IT IS BOTH AN ARITHMETIC AND GEOMETRIC PROGRESSION), TO GET THE CHILDREN IN THE LINEAGE, IT IS THUS THE PERFECT (SPIRAL) NEST FOR WAVES.

THE RELATIONSHIP OF THAT PERFECT PROGRESSION, AND THUS THE PATH OF THAT SPIRAL DESCRIBE A PERFECT PROPORTION BETWEEN LATERAL MOTION AND ROTATIONAL MOTION. THE SPIRALING SQUARES ARE WELL KNOWN, WHERE RATIO OF LENGTH AND AREA ALONG A PATH ARE CONSERVED INFINITELY ACROSS SCALE. THE SAME PATH ALSO EXACTLY DESCRIBES SPIRALING TRIANGLES OF THE GOLDEN MEAN, AND PERFECT INFINITE NESTED PENTAGRAMS!

THE GOLDEN MEAN SPIRAL IS THE PATH BY WHICH WAVE FORM MAINTAINS COHERENCE ACROSS DIMENSION.

CONSIDER THAT THE ICOSAHEDRON IS CONSTRUCTED WITH JUST THREE GOLDEN MEAN RECTANGLES... THAT THE ICOSAHEDRON CONTAINS NESTED PENTAGRAMS ON EACH OF TWELVE SYMMETRICAL FACES-CONTAINING THEREIN A PERFECT PENTAGON DODECHEDRON...AND THE RATIO PATH SO SET UP BETWEEN DODECAHEDRON AND ICOSAHEDRON, THAT THE LINES BETWEEN THEM WHEN EXTENDED GENERATE AN INFINITE THREE DIMENSIONAL NEST OF ALTERNATING INTERDIGITATED PENTAGONAL DODECAHEDRA VS ICOSAHEDRA... LITERALLY THREE-D NESTED PENTAGRAMS... AND THUS... STARS WITHIN STARS.

AND EACH FIVE POINTED STAR IN THAT INFINITE NESTING POTENTIAL IS BUILT ON THE GOLDEN MEAN RATIO, INSIDE AND OUT. THE SPIRAL

CONNECTS THE VERTICES/VORTICES OF THE WAVE FORM, MAKING THEM INTERDIMENSIONAL COMMON NODAL POINTS OF LIGHT. EVERY SYMMETRICAL FACE OF EVERY REGULAR POLYGON IN THE NEST IS ABLE TO STAND AS A RESULT OF THE VORTEX TO CENTER WHICH SUSPENDS IT.

ELECTRONIC GEOMETRY IS THE POLYGAMOUS SYMMETRICAL ARRANGEMENT OF CONES. GEOMETRY RESULTS AS THE SPIRAL IS SET IN A MULTIPLICITY OF PHASE RELATIONSHIPS ON THE TOPOLOGY OF EACH NESTED TOROIDAL VORTEX.

ALL BONDING IS PHASE LOCKING.

THE PHASE LOCKING OF THE GEOMETRIES IS BASED UPON PERFECTLY BALANCED/TRADED MOMENTUM BETWEEN LINEAR AND ROTATIONAL MOTION: AGAIN THAT CURVE BETWEEN THE LINE OF THE MASCULINE AND THE CIRCLE OF THE FEMININE, ENERGY VS MATTER. THAT BALANCE, AND THE PATH BETWEEN THEM, IS THE GOLDEN SPIRAL. AND THE TORUS IS THE SOCIETY OF PREFERENCE FOR A WIDENING GYRE. (JUST AS IT IS THAT WHEN YOU HAVE ONLY SMOKE TO WORK WITH, YOU CAN ONLY MAKE SMOKE RINGS).

LOOK AT OUR FLOWING DONUT FROM THE TOP IN YOUR INNER EYE. IMAGE THE PLANE SURFACE CLOSEST TO YOU, IN ROTATION. NOW MOVE YOUR FOCUS GRADUALLY TOWARD THE CENTER OF THE VORTEX. AS YOU DO SO, SEE THE SAME ROTATIONAL MOTION YOU STARTED WITH, TRANSLATED IN PERFECTLY GRADUAL UNIFORM ACCELERATION, TO LINEAR MOTION TOWARD THE CENTER. UNTIL WHEN YOU REACH THE CENTER, THE SAME AMOUNT OF FLUX YOU BEGAN WITH ROTATING FLATLY IN THE PLANE IN FRONT OF YOU, IS NOW MOVING ENTIRELY PERPENDICULAR AND AWAY FROM YOU. THE FLOW IS NOW INTENSELY FOCUSED ALONG A CENTRAL AXIS, PERPENDICULAR TO THE CIRCLE YOU BEGAN WITH. THERE HAS BEEN A PHASE SHIFT! WHAT WAS IS ONE DIMENSION HAS NOW C R O S S E D INTO ANOTHER.

ONE CROSS SECTION OF THE TORUS IS THE FIGURE 8. THAT IS THE OCTAVE, AND PERPENDICULAR TO THAT IS OUR SYMBOL FOR INFINITY. OUR SYMBOL OF TWO TOUCHING CIRCLES, IS A MARRIAGE OF OPPOSING SINE WAVES, AND SO IS A TORUS.

A PLANE PASSING THROUGH AND CUTTING A CROSS SECTION OF THE TORUS FROM ABOVE, SEES FIRST A CIRCLE, THEN CONCENTRIC CIRCLES, THEN A CIRCLE AROUND A POINT. NOW, PLACE A SINE WAVE ACROSS THE POINT AT THE CENTER OF THE CIRCLE UNTIL YOU HAVE OUR SYMBOL FOR THE TAO. THEN ROTATE THE SINE WAVE IN OPPOSING DIRECTIONS IN THE CIRCLE IN YOUR INNER EYE. HOW DOES THE PHASE RELATIONSHIP OF THE PERFECT WAVE, CREAT GEOMETRY?

THE RELATIONSHIPS OF ORDER AMONG WAVE AND AMONG MINDS, CAN BE MODELED AS THE FOUR AND SEVEN FOLD, PHASE PERPENDICULARITIES OF THE CIRCLE AND THE TORUS. SPEED BECOMES ACCELERATION, BECOMES CHANGE IN ACCELERATION, BECOMES CONTROL, WHICH "REFLECTS" BACK UPON SPEED. ON THE FOURTH PHASE SHIFT YOU SQUARE THE CIRCLE. BUT THEN AS YOU CONTINUE AND GO AROUND THE OPPOSITE MIRROR CIRCLE MAKING THE 8, THE PHASE SHIFT EIGHTH MERGES WITH THE INITIAL MOMENTUM IN BOTH PHASE AND DIRECTION. A FATEFUL FEEDBACK LOOP.

WHILE GOD MAY NOT BE FOND OF DICE, HE DOES SEEM TO LIKE MIRRORS.

MAN, AT THE CROSS POINT OF THE WAVE OCTAVE, IS THE PLACE OF FOCUS WHERE THE CONSCIOUS BECOMES SELF-CONSCIOUS. A REFLEXIVE UNIVERSE, OZ, WAS OVER A REFLEXIVE RAINBOW. MATTER IS A TURNING POINT AT THE CROSSROADS.

AND IN A DANCE BY TURNING AND TURNING WE COME ROUND RIGHT.

THUS THE PATH ALONG WHICH FOCUS/MOMENTUM CAN MAINTAIN COHERENCE (AVOID INTERFERENCE) ACROSS LEVELS OF ORDER (DIMENSION/SCALE), IS...THE SPIRAL YELLOW BRICK ROAD BETWEEN WORLDS. IF YOU WISH TO SEE A SERIES OF WAVES CONVERGING AT A POINT, MAKING MATTER OUT OF ENERGY, YOU NEED A WAY TO MAKE YOUR POINT: FOCUS.

IN ORDER FOR THE CENTER TO HOLD, A POINT MUST BALANCE A WIDENING GYRE. ONLY IN THIS WAY CAN THERE BE A VERTEX: IT MUST BE A VORTEX. THE WAVES SET THEMSELVES WHIRLING ABOUT A POINT OF FOCUS IN ORDER TO STAND. CENTER OF GRAVITY HAS THE SAME MEANING TO PHYSICS AND PSYCHOLOGY. SPIRITUALLY IT IS CALLED PURITY OF INTENTION.

THE STABILITY OF THE WAVE (OR THOUGHT) FORM ABOUT ITS MOMENT OF FOCUS DEPENDS ON THE AMOUNT OF ORDER IT ADDS TO ITS ENVIRONMENT. PSYCHOLOGICALLY THE FEMININE/MASCULINE BALANCE OF A THOUGHTS ENERGY IS EXACTLY WHAT PHYSICALLY IS THE ROTATIONAL VS LINEAR PHASE LOCKING OF MOMENTUM IN THE SPIRAL VORTEX. ROTATIONAL MOMENTUM IS MATER-IAL, LINEAR IS PA-TERNAL...MATTER/ENERGY...SPACE/TIME.

MATTER IS AN IDEA WHOSE TIME COMES, WHEN WAVE FORM STABILITY PHASE LOCKS BETWEEN PERPENDICULAR ROTATIONAL MOMENTUM AND LATERALLY CONVERGENT MOTION BOTH INTO AND OUT OF THE CENTER OF THE VORTEX. THE LINE WITH THE CURVE, MEET IN THE SPIRAL. THE SPIRAL LINKS NESTED GEOMETRIES... CONNECTING MATTER TO ENERGY.

PHASE LOCKING OF MOMENTUM IS DEPENDANT UPON REINFORCEMENT OF NODES BASED UPON FREQUENCY HARMONICS. STABLE WAVE FORMS CAN ONLY EXIST IN THE CROSSING PATHS OF FLOW, WHERE EQUIDISTANT NODES REFLECT HARMONIC MULTIPLES OF BASIC WAVE LENGTHS OF THE PATTERN (THE FUNDAMENTAL CONSTANTS).

THE NECESSITY WHICH DEFINES SYSTEMATIC EQUIDISTANCE AMONG THE NODES BASED UPON FREQUENCY AND WAVE LENGTH, GENERATES THE ARCHETYPAL SEQUENCE OF REGULAR THREE DIMENSIONAL POLYHEDRAL (PLATONIC) SOLIDS IN ORDER OF THEIR COMPLEXITY.

IN THIS HEART OF CREATION, THE LAWS OF TENSOR/VECTOR EQUILIBRIUM AND CLOSE PACKING ARE GIVEN STAR-LIT BIRTH IN WAVE PHENOMENON.

EACH HARMONIC WAVE-LENGTH OF A DIMENSIONALLY BASIC (PLANCK LENGTH LEVEL) FRQUENCY GENERATES A SERIES OF GEOMETRIES, SYSTEMATICALLY INTERDIGITATED IN NESTED SPIRAL VORTICES. THE AMOUNT OF FLUX WHICH CAN BE STORED IN A TOPOLOGY OF FLOW IS IN LARGE PART DEPENDANT ON THE NUMBER OF ROTATION AXES OF SYMMETRY WHICH CAN BE

SIMULTANEOUSLY SUPERPOSED ON ITS (MULTIPLY CONNECTED) SURFACE. THE NUMBER OF AXES OF SYMMETRY OF THE SEQUENCING GEOMETRIES ARE VISUAL TOOLS FOR UNDERSTANDING THE NUMBER OF ELECTRONS IN THEIR SUBSHELLS, BASED UPON THE POTENTIAL FOR CONSTRUCTIVE SUPERPOSITION OF OPPOSING DIRECTIONS OF "SPIN". THE ORDER OF INTERDIGITATION AND CRYSTALLIZATION OF THE GEOMETRIES IN THEIR PATTERN, "FLOW" NATURALLY FROM THEIR HARMONIC SIZE AND RATIO... INFORMATION IS STORED FROM SEED INTO COMPLEXITY.

ASSEMBLING A MODEL OF THE ARCHTYPAL NEST (THEOSOPHY'S "LESSER MAZE") OF THE PLATONIC SOLIDS, GIVES VISUAL FRAMEWORK TO OUR CONCEPTION OF ELECTRON SHELL FILLING, ATOMIC AND MOLECULAR BOND ANGLES. THUS AS WE BUILD UPWARD IN COMPLEXITY TOWARD BIOLOGY FROM CHEMISTRY, WE ARE SEEING THE EXTRAPOLATION OF A FAMILIAR WAVE PRINCIPLE IN THE ARRANGEMENT OF BIOLOGICAL MEMBRANEOUS MORPHOLOGY, AS "THE LAWS OF FORM". FROM THE MICRO TO THE MACRO, THE DISTRIBUTION OF WAVES MOMENTUM IS THE "CATASTROPHY" THAT QUANTIZES THE DISCONTINUOUS, OUT OF THE CONTINUOUS... A KIND OF ILLUSION OF SEPARATENESS.

THE CELL HAS MEMBRANE, THE MIND HAS MEM-ORY/BRAIN; BOTH INTENTIONALLY PERMEABLE AROUND A CENTER OF GRAVITY.

THE PERIODICITY OF THE PERFORMANCE OF ROTATION-SYMMETRY OPERATIONS IS NOT NEW TO GROUP THEORY. THE CONSERVATION OF LINEAR VS ANGULAR MOMENTUM ARE NOT NEW TO QUANTUM THEORY.

WHAT THEN IS THE FUNCTION OF EMPHASIZING THE SPECIFICALLY VISUAL GEOMETRIC MODEL? AND WHY DO WE NEED TO SEE CLEARLY IN THE MINDS EYE, THE SPIRAL... IN ORDER TO UNDERSTAND HOW IT SQUARES THE CIRCLE AS IT GENTLY TEACHES LINE TO MEET CURVE?

TURNING ABSTRACTIONS INTO EXPERIENCE, THAT IS WHAT HUMANIZES PHYSICS, AND DRAWS FROM IT... VISION.

EVERY SYMBOLIC EXPRESSION OF ORDERLY RELATIONSHIP, CAN ULTIMATE RESONATE TO A VISUAL EMBODIMENT. THIS IS BECAUSE THE VISUAL CORTEX IS A MICROCOSM MACROMOLECULAR LIQUID CRYSTAL WAVE CHAMBER, ENSHRINING IN A CHALICE, ALL OF THE WAVE INTERFERENCE POTENTIALITIES WHICH COMPRISE THE RICHNESS OF MATTER AND UNIVERSE.

THE FINAL SYNTHESIS OF ANY MATHEMATICAL DESCRIPTION IS PICTORAL VISUAL IMPRESSION, BECAUSE AT THE SACRED ROOT OF LANGUAGE, VISION IS WHERE SYMBOL PARTICIPATES IN THE REALITY TO WHICH IT POINTS.

THE MEANING OF IMAGE-INATION, AS IN THE NEW SCIENCE OF PSYCHONEUROIMMUNOLOGY, IS PHYSIOLOGY AT THE BRIDGE BETWEEN SYMBOL AND OBJECT. THE SYNAPTIC SPARK-GAP, SQUARE WAVE RICH, HARMONIC BIO-LINK WHICH MAKES MAN THE LENS OF CREATION.

THE POWER OF CREATION AT EVERY LEVEL, FOLLOWS THE POWER OF VISUALIZATION. FORM FOLLOWS THOUGHT.

I N T E N T I O N &
I M A G I N A T I O N
A BIOPHYSICAL ANALYSIS

DAN WINTER

" ...IF WISHES WERE HORSES,
BEGGARS WOULD RIDE..."

WE HAVE DEVELOPED SOME UNDERSTANDING OF THE NATURE OF MATTER AS VARIATIONS IN COMPRESSION OF ONE CONTIGUOUS SUBSTANCE. WE CAN BEGIN TO VISUALIZE A MECHANISM BY WHICH THE COMPONENT WAVE FRONTS IN A UNIVERSAL ETHER OR SPACE TIME METRIC, DIFFERENTIATE INTO THE FORCES AND INERTIA TO WHICH WE HAVE ASSIGNED NAMES LIKE CHARGE AND MASS. IT REMAINS APPROPRIATE FOR US TO DIFFERENTIATE CONCEPTUALLY WHAT WE HAVE CALLED THE FUNDAMENTAL FORCES: GRAVITY AND ELECTROMAGNETISM HAVE DIFFERING HYDRODYNAMIC TOPOLOGY... BUT HARMONIC SEGREGATION OF MOMENTUM AS FOUND IN SEGREGATED FORCES DOES NOT IMPLY DIFFERENCE OF SUBSTANCE.

WHICH IS TO SAY: NEW PHYSICS REQUIRES A RELIGION OF ONE GOD.

RELATIONS BETWEEN FIELDS OF DIFFERING WAVE HARMONIC AND TOPOLGY REMAIN ISOLATED IN THE "ILLUSION OF SEPARATENESS" UNTIL THE RITUAL WAVE WRATCHET GEOMETRY OF CONNECTEDNESS IN SPIRAL CRYSTAL MAKE THE QUANTUM LEAP... IN QUARTZ, IN DNA, IN THE CHAKRAS.

THE HOLOGRAPHY OF SOUND, AND OF LIGHT, AND OF WAVES BEYOND, MAKE THEIR DANCE OF UNIVERSAL PEACE IN THE LIQUID CRYSTAL PIEZOELECTRIC WAVE GUIDE CALLED BIOLOGY.

LET US TAKE A CLOSER LOOK NOW AT WHAT CONNECTIONS OF UNIVERSAL SIGNIFICANCE ARE WOVEN THROUGH BIOLOGY PRECISELY OUT OF THE INTRODUCTION OF ATTENTION/INTENTION (FOCUS).

THE PRODUCTION OF WAVE SHAPE STABILITY AND THE GYROSCOPIC INERTIA CALLED MATTER ARISES OUT OF WAVES OF UNIVERSAL FLUX DUE TO ONE FORCE ONLY... THAT IS THE FORCE WHICH CAUSES WAVES TO PHASE LOCK AND ALIGN OR FOCUS AT A NODE. DENSITY OCCURS WHEN COMPRESSION COHERES TOWARD STABILITY IN A WAVE DANCE. PRODUCING DENSITY REQUIRE COHERENCE AMONG WAVES. PRODUCING COHERENCE REQUIRES AN INFLUENCE WHICH FOCALIZES OR GIVES COMMON CENTER OR SEED AND CENTER OF GRAVITY TO A WAVE DANCE.

ALL OF WHICH IS TO SAY THAT ANY FORCE WHICH CAUSES WAVES TO STAND TOGETHER AND DANCE IN UNISON IS THE ULTIMATE (AND ONLY) CREATIVE FORCE REQUIRED TO MAKE A UNIVERSE OUT OF ONE COMPRESSIBLE SUBSTANCE.

THIS DOES NOT SIMPLIFY THE RICHNESS AND CREATIVE DIVERSITY OUT OF WHICH THIS POWER TO FOCUS AND THUS CREATE MAY GROW. ANY MASS IS THUS WAVE GUIDE, AND FOCUS IS ENERGETICALLY TRANSCENDENTAL WHETHER IT BE CRYSTAL LENS, RED GIANT PLANET MASS, OR HEART AND GLAND CENTERED EMOTION. WE ARE SIMPLY NOW IN A BETTER POSITION

TO UNDERSTAND CERTAIN ARCHETYPES OF CONNECTEDNESS ACROSS SCALE: THE ROLE OF MIND AMONG WAVES.

WE HAVE RECOGNIZED THE ULTIMATE POWER OF PERFECTION OF RATIO; ANY SHAPE WHICH ACHIEVES WAVE FUNCTION ON ONE SCALE BY VIRTUE OF SHAPE (OR WAVE ENVOLOPE, OR RATIO) HAS THE POTENTIAL TO EXECUTE THAT FUNCTION ON EVERY SCALE.

LET US TAKE THAT MESSAGE BACK TO THE BIOLOGY OF THE BODY, AND OF THE GLANDS, THE HEART OF HUMAN EMOTION. WE CAN TRANSFORM THE PHYSICS OF PURITY AS APPLIED TO CRYSTAL, TO A BIOPHYSICS OF PURITY AS APPLIED TO LIQUID CRYSTAL: EMOTION IN THE BODY.

DURING DEEP RELAXATION THE PRINCIPLE LIQUID CAVITIES OF THE BODY ACOUSTICALLY PHASE LOCK. (AS DOCUMENTED BY BENTOV: STALKING THE WILD PENDULUM). WHICH IS TO SAY THE SOUND WAVES TRAVELING FROM ONE LIQUID CHAMBER IN THE BODY HARMONICALLY COUPLE ADJACENT AREAS WITH THE ASSOCIATED GLANDS. THE PRINCIPLE DEVELOPED EXAMPLE BEING THE HEART CAVITY ENTRAINING THE LIQUID VENTRICAL CAVITY IN THE BRAIN.

THIS SOUND OR PHONON WAVE COUPLING AND ENTRAINMENT IN THE BODY TAKES ON GREAT SIGNIFICANCE WHEN UNDERSTOOD IN TERMS OF THE BIOELECTRIC CHECKS AND BALANCES WHICH CHOREOGRAPH METABOLISM IN THE BODY. MUSCLE AND NERVE TISSUE WHEN CONSIDERED MACROCELLULARLY FUNCTION IN IMPORTANT WAYS LIKE PIEZOELECTRIC LIQUID CRYSTAL:

PIEZOELECTRIC MEANING THAT SOUND PRESSURES PRODUCE ELECTRICAL PRESSURES (VOLTAGE).

LIQUID CRYSTAL MEANING THAT UNDER RELAXATION/ENTRAINMENT, THE MORE LIQUID MODES OF CELLULAR ARRAY, MACRO (PHASE) LOCK IN HARMONIC MODES MORE DESERVING THE TERM CRYSTAL THAN LIQUID.
AS IN THE CROSS HERMISPHERIC EEG COHERENCE IN BRAIN TISSUE...
FROM LIQUID-THROUGH INTENTIONAL RELAXATION- "SNAP, CRACKLE, POP"-
TO CRYSTAL.

THEN WHAT ARE SOME OF THE EFFECTS OF COHERING SOUND WAVES MOVING IN A (BIOLOGICAL) CRYSTAL? THE SOUND WAVES ARE CARRYING INFORMATION ABOUT TIMING BETWEEN THE BODIES CAVITIES AND THEIR CONTAINED DUCTLESS GLANDS. THESE GLANDS ARE THE RESONANT SEAT OF HUMAN EMOTION.

WHEN WE SPEAK POETICLY ABOUT THE SOFTENING OF THE HEART, WE ACKNOWLEDGE A ROLE PLAYED BY SOUND: "THE HEART SINGS" .

THE GLANDS ARE THE CENTRAL DOPANT OF THE BODIES BIO/CRYSTAL CENTERS-NERVOUS GLANDULAR PLEXI CALLED CHAKRAS IN THE SPIRITUAL LITERATURE (BY VIRTUE OF THEIR DIFFERENCE IN DENSITY AND ELECTRICAL RESONANCE TO THEIR SURROUNDING LIQUID/CRYSTAL).

THE FUNCTION OF THE DOPANT IN A CRYSTAL IS THE TRACE "IMPURITY" WHICH SERVES TO TUNE THE ENTIRE CRYSTALLINE MATRIX. THIS TUNING IS ACCOMPLISHED BECAUSE THE ORDERLY NATURE OF CRYSTAL FACETS

(LIKE FACETS OF PERSONALITY) IS TO FOCUS THE MOMENTUM OF ALL ARRIVING WAVES TOWARD ITS CENTER.

FOR A WAVE CAVITY A CENTER POINT IS A CENTER OF THE VORTEX, A CENTER OF GRAVITY, AND ASSEMBLAGE POINT. THE FOCAL POINT THAT IS THE CENTER OF THE PRISM ASSEMBLES THE HETEROGENOUS MIX THAT IS WHITE LIGHT, INTO THE HARMONIC ORDER THAT IS THE RAINBOW.

THE ALIGNMENT POINT THAT IS FOCUS (WILL OR MIND) GENERATES THE MUTUAL WAVE REINFORCMENT (CONSTRUCTIVE INTERFERENCE) THAT IS THE RAINBOW. HARMONIC HETERODYNE WAVES WHICH DO NOT PRODUCE MUTUAL RESONANCE, GENERATE THROUGH FOCUS, MUTUAL WAVE CANCELLATION (DESTRUCTIVE INTERFERENCE).

THIS MEANS THAT WHEREVER THERE IS FOCUS, ORDER (LOVE) REPLICATES AND DISORDER (EVIL) SELF-DESTRUCTS.

SINCE THE CRYSTAL IS PIEZOELECTRIC, THE SOUND OR PHONON WAVES ARE GENERATING SYMMETRICALLY RELATED ELECTRICAL PRESSURE WAVES. THIS ALLOWS THE "SONG IN THE HEART" TO "SOFTEN" THE HEART, BY TRIGGERING THE PSYCHOACTIVE HORMONAL PRODUCTION OF THE DUCTLESS GLANDS IN THEIR RESONANT HIERARCHY.

THE ACTIVITY OF THE GLANDS IS ACOUSTICALLY CHOREOGRAPHED AND ENTRAINED BY THE BODY PLAYED AS A HARP IN THE WIND OF EMOTION.

THE PURITY OF THE INTENTION LIMITS THE EXTENT OF THE BLOSSOM OF THE LOTUS FLOWER, BECAUSE IT DEFINES THE PURITY OR ORDER OF THE CENTER POINT OF THE VORTEX. THE ASSEMBLAGE POINT WHERE THE FIRE FROM WITHIN BUILDS AS WAVE BLOSSOM FROM SEED. WHEN ALL THE BODILY FIELDS EMOTIONAL AND PHYSICAL PHASE LOCK AROUND INTENTION THEN THERE IS THE NECESSARY RESONANT IMPLOSION THAT PHASE COUPLES THE MOMENTUM NECESSARY TO SHAPE MATTERS WAVES AROUND THE HIGHER SPEED ORDER OF SPIRIT.

THUS IF THE UNCONSCIOUS KNOWS THAT THIS CREATIVE VISUALIZATION IS FOR THE BENEFIT OF THE GREATER WHOLE, THEN THE MOMENTUM OF THAT PRESENCE ADDS TO THE CENTER OF GRAVITY WHICH FOCUSES SPIRIT TO MATTER. EMOTION AND GRAVITY ARE THE SAME WINDOWS OF THE SPECTRUM OF THE ONLY ONE SUBSTANCE. THEY ARE CONNECTED IN THE HARMONIC HIERARCHY OF THE BODY THROUGH THE LIQUID CRYSTAL HELIX THAT IS THE HIERARCHY OF THE GLANDS/CHAKRAS.

THE BIOPHYSICS OF PURITY IS THUS THE SAME AS THE PSYCHOLOGY AND THE PHYSICS OF PURITY. FOCUS IS THE CREATIVE ASSEMBLER OF MATTER, VISUALIZATION-IMAGINATION IS THE LIQUID CRYSTAL COOKIE CUTTER OF FOCUS, AND PURITY IS THE ORDER OF THE CENTER OF FOCUS WHICH LIMITS THE GROWTH AROUND THE SEED.

KUNDALINI:
A DEEPER BIOLOGICAL UNDERSTANDING

" IT IS POSSIBLE AND USEFUL NOW
TO UNDERSTAND AND VISUALIZE A
SPECIFIC BIOLOGICAL MECHANISM
TO KUNDALINI, ENHANCING THE
POSSIBILITY OF DEVELOPING AND
CHANNELING THIS FOUNTAIN OF YOUTH."

When we who have shared the richness of yogic literature address the powerful questions surrounding the Kundalini phenomenon, we are sometimes hesitant to harness the rigor and specificity of our well evolved scientific language- to describe this heart of a tradition, unusually shrouded with esotericism.

In fact, if we are to be able to holographically call up the visions necessary to meaningfully harness this tremendous bio-emotive momentum, we specifically need all the rigor and clarity we can get from the operating symbol system of the psyche. Because the amperage and voltage (literally in electrical terms as well as metaphorically) of the kundalini phenomena are so high, the stability and resolution of the image stucture focusing the momentum, are precisely the test and limit of the horizon of effect and usefulness of the channeled energy...

"as the playdough moves faster, the molded die cutter needs be sharper and stronger".

"as the river speeds up, the need for balance on the water wheel increases".

Disorder,imbalance,resistance and heat are the limitation for every power transmission system. The human biosystem and emotional hierarchy are classic and lawful in this sense.

What is the substance of this percieved intense momentum? Physically, emotionally, spiritually, biologically, symbolically; the question deserves coherent answers related to all disciplines.

Kundalini is initially described as the feeling of extreme "electric like", erotic, emotive surges, from the base of the spine, through the glandular/chakra centers, through the top of the head. The experience for some becomes many-fold more intense than ANY other experience of the human condition. It is potentially both biologically ecstatic to the limit of the human nervous systems capacity to sustain ecstacy, and can be physically totally devastating. It is related to the experience and development of emotive coherence and electrical conductivity in the liquid crystal of the body, whose connection to spiritual practices and glandular development this article will attempt to address in detail.

First we will describe more aspects of the fascinating symptomatology surrounding kundalini, and then we will attempt to evolve a potent electrical and biological model to give scientific context to the phenomenon. Lastly we will draw some implications for the immediate role of Kundalini in nourishing planetary mind.

Lee Sannella ("Kundalini: Psychosis or Transcendance"),developed an important clue to the long term biological significance of kundalini, when he traced the path of stimulation of the bodies pleasure centers around the soft curves of the brain, according to the perceptual reported travel of the kundalini sensations. Systematic stimulation of the bodies pleasure centers is not something mother nature allows to happen without excellent reason. Days or even weeks of almost constant tears of ecstacy are known during certain stages of kundalini development. Although more correctly, the experience of ecstacy in spiritual work should be seen in the overall context of the personal growth, and not strictly as an aspect of kundalini. At other times an immense firelike column of transfixing heat and pressure, immobilizing even the thoughts, are part of the phenomenon. The literature repeatedly describes dramatic intense rushing sensations usually moving up the spinal column. The growing body of reported experience, apparently intimately a part of the biological situation of being human, should not be ignored by biological and physical models.

What is the biological meaning of ecstacy? Is it a reward/feedback loop provided by collective mind, aimed at specific useful service? The term feedback loop is very appropriate here, in that the curvature of the paths of stimulation/conductivity in the body are exactly that: a loop-feeding back. Each time the flux line of an emotive/electrical field is focused by intentional self reference to center point, the field grows by coherence implosion to its own heart. The notion of "heart" is a rich topological morphogenetic metaphor for the concentric vortical archetype of every form of energetic stability. Regard the muscle layers of the heart as they are: the liquid crystal wave guides to the focal center of gravity... of the piezoelectric (electro-sonically active) glandular chain. (Don't let language density disturb you, enjoy whatever images arise from your own psyche.)

We are here close to numerous penetrating images from the realms of crystallography, and interestingly the poetry of emotion. Electrical purity as used in resonant crystal design is wonderfully illuminating of the deep meaning of emotive/intentional purity. To conduct a field with purity and power (that is absence of destructive resistance/heat), electrically and spiritually requires absolute order and concentricity of focus. The efficient and well tuned crystal oscillator requires both purity and order. The nervous system has similar requirements, sometimes called one-pointedness, and relaxed focus, which have real connections to the order related to relaxation and conductivity in nervous and muscular tissue: liquid crystal.

Emotively speaking if intention is clouded with mixed messages from varying depths of the crystalline psyche, then the centers of gravity OF INTENTION are not concentric or coherent... The electrically elegant cut crystal is required of the same concentricity of focus by facet array to produce light focus and

desireable fire. You start with the purest crystal you can find, you watch the infinite nesting of electrical/gravitational harmonics woven into its phased bond structure trapped by moment of birth... and dope with carefully chosen tuning agent at focal center of molecular structure- to produce the ultimate instrument of conductivity/connectivity on the path from light to matter; Focus is the only tool required.
Biology and crystal are wave guides for that natural function.

Crystallization or birth are names for the instant that wave momentum is trapped in a standing wave matrix (or womb). All bonding is phase locking. It isn't just the electron shell which stands and bonds because of wave momentum phase locked in opposing directions. This principle of phase locked opposing wave momentum applies to atomic, molecular, human, and planetary bonds. It is the nature of bonding that captures and stores the wave envelope whose geometrized momentum produced stability (in Yogic terms: Shiva). The nature of each standing wave ENVELOPE, is such that the complex harmonic matrix in the ambiance of the field at the moment of CRYSTALLIZATION, is trapped/stored/contained. The result is that the information/order which existed, not just in the electrical field at the time, but also the higher frequency emotional/gravitational field, is preserved/contained. This is because coupling a standing wave means holding not just the pure wave "in hand", but also the infinite nest of harmonics contained in what is called the wave envelope (simply wave shape or container). The potential for infinitely multiply connected depths of harmonics is the key to holography and thus mind. This is why the instant of crystallization is such a profound and significant moment. Consider the implications for crystal as information storage devices (psychometry?), for astrology (moment of birth), for emotional armoring in the liquid crystal of the muscle. Consider the Crystos birthing potential of the fiery column of locked light that is ecstacy and Kundalini.

Ecstacy then, is the glandular chain reporting happily the beginning of the completion of its function: the accomplishment of the neccessary frequency cascade to couple light/electricty/ and matter in a single coherent and LIVING bridge. The biological urge for the collective nervous tissue of the human species to produce that coupling (necessary to the choreography of all life in our ecosystem,) is reported with tears of joy. The tears are the physio/symbol of resistance/disorder (the death of everything not eternal) washed from the crystal-Chrystos convergence of all that is life (eternal).

The onset of superconductivity in crystal is often described by phonon (sound like) waves cohering to weave disorder/resistance/heat into nested order/coolness/conductivity. Piezoelectricity is the sound pressure/electrical pressure coupling which occurs in certain crystals. The glands themselves function piezolectrically at the centers of the nervous/endocrine plexi called chakras. This means that they respond electrically to acoustic pressures, and respond acoustically to electrical

pressures. They are sonically active. (cf: Frequencies heard by meditators, charted in "Stalking The Wild Pendulum", by Bentov, Dutton Pub.) The siginifcance of this, particularly in the higher glands (pituitary/pineal) is that the coherent sound hierarchy coupling throughout the body during deep relaxation (again cf: low frequency phase lock to the heart, and brain ventrical cavity, Bentov)... triggers psycho-active hormonal secretions by stimulating and softening the glands. (The "Softened" heart?). The entire nervous cavity then is triggered to the onset of superconductivity/ecstacy by the psycho active secretions of (kundalini) stimulated glands.

The emotional and erotic implications of the onset of glandular (super)conductivity connecting the acoustic and ELF (Electromagnetic Low Frequency Fields) to the high frequency fields we call gravity and emotion, are sweeping:

- -The more liquid qualities of the gladular plexi stand to greater rigidity, literally crystallize, around the field order of the acoustic (mantra?) ringing field.
- -The phonon or pressure sound waves columnate a matrix of order around which the molecular planes crystallize. The triggering and alternate hardening/softening and heating/cooling of glands and plexi (chakras) are externally perceptible.
- -The glandular hierarchy is piezoelectrically stimulated toward its higher ecstatic limits of secretion/activity.
- -The hormonal activity thus triggered is psychoactive.
- -The body biofield's increased coherence and implosive focus couples larger and more planetary fields (collective mind). (Consider the deep symbiotic relationship between the natural Schumann ELF field of the planet, and the frequencies tending to produce elation in humans.)

The glands also function exactly as the analog of the dopant in the crystal: The crystal's dopant is the carefully chosen "foreign" or unique element carefully chosen for planting at the center of a resonant cavity, whose own resonance causes all of the momentum forced through that cavity center by the necessary process of concentric focus, to be TUNED by its inherent field/shape/frequency. Thus a gland say in the central brain cavity is functioning as the tuner for that wave guide cavity. It is not only psychoactive endocrinologically as an acoustically energized, piezoelectrically triggered ductless gland, it is simultaneously psychoactive mechanically as a liquid crystal tuning dopant.

THE MAGICAL HELIX...

The geometric array which allows coupling between widely differing frequencies, in quartz crystal is symmetry in one axial plane, coupled with SYSTEMATIC assymmetry in another orthagonal plane. The unique and fascinating element of the system of assymmetry in the long or C axis of quartz is that it is helical. (an elongated cube/hex spiraling of the oxygenated spine.) The helicity of genetic material (DNA), AND of the human prime chakra/endocrine (Kundalini) column, are similarly of profound

morphologic significance as wave guide.

Here are a few simple turns of mind to help us dance the simple wonder of the helix together: First, while remembering your childhood Sunday School lesson of Jacobs Ladder, draw in your mind a simple long ladder with ten rungs. Now grab one end mentally and twist one full circle. Now pretend you cannot see the rungs for a moment but only the side rails of the ladder. Notice that if you looked at it from the side your would see only the elegant double opposed sine wave. This has the same structural significance as the standing waves on a guitar string, or the electron standing wave shell stability when opposing directions of spin are present. Also see that when one of these complete sine waves is enclosed in a circle (two halves of the next larger sine wave) we have the symbol for the TAO. Here too are rich meditations on the symbol of the serpant (Kundalini is often called the "Serpent Power"). Also since the Kundalini glandular momentum originates in the lower sexual centers, the Uroborotic notion of the Serpent eating its tail, here takes on on even deeper meaning. (cf Gurdjieff: "organ Kundabuffer")

Before putting away your visualization of the twisted ladder helix, take a moment to look at it from above. Again with the rungs invisible, but the places where the rungs touched the side rails marked, note that from above you see simple nested pentagrams nested in a double spiral. From above with no perception of depth, you might think you were looking at nice planar spirals. You could make this same image by drawing one pentagram touching the inner center edges of another, repeatedly. Then connect one spiral row of vertices, then all ten. Notice ten phased spirals of the golden mean. Each penta- edge to its next is ratio Golden mean. Spiral chords, and arcs are the same ratio- 1.618033989.... Note the progression: .618.., 1.000, 1.618..., 2.618..., ..., is infinite, is geometric, logarhythmic: each number is 1.618.. times its next, and each is the sum of its two preceding numbers: that is the meaning of an arithmetic and geometric progession: a perfect infinite series of all coherent non-self-destructive heterodynes... (of sum and difference frequencies generated by each adjacent beating pair, none are homeless or self cancelling within the nest) a door between frequencies/dimensions/worlds. Your twisted ladder seen from above is nothing more or less. DNA has ten rungs per rotation! The top and bottom of a pentagonal docdecahedron seen from above look the same. DNA could be said to be a moving, spinning dodecahedron. Each nodal point in the array is a transformer drop off point for momentum moving between frequencies (worlds or dimensions) in a disciplined Jacobs Ladder wave guide.

And DNA is the heart of every cell in the body dancing with the potential to energy ecstacy.

Another aspect of the bridge between fields that is the helix/ wave guide, is the inherent multiply coupled mechanical oscillation of the spring. One way to visualize the capability of this elegant spiral geometry to act as a simple lever coupling

one axis of long motion to another axis of short motion, is to consider that pulling a long distance on the ends of a spring, moved someone holding the sides of the spring inward only a little. The molecular expression of this helical springlike leverage in quartz is its capability to turn simple mechanical (or acoustic/sound) pressure into electrical pressure/voltage. This principle labeled piezoelectricity is a profound metaphor for the lawful interface of geometrically distant forces, into cascaded harmonic sysmtems; it arises explicity because of the helical nature of quartz. The inherent stability of the piezoelectric principle in crystal oscillators allows us to choreograph the timing of our dance as culture to time/rhythmn established only this way. Quartz timing is the heart of the computer as well as the watch. The magical stability of the helix, spring wound in phase, turns out to be the genetic and glandular dancemaster of biology and ecstacy as well.

The helicity of genetic material (most suseptible to resonance in the cell)... choreographs the dance coupling the information rich biofield of the cell into its' molecular planes via the mitotic ritual. This is accomplished because the morphologic placement of molecular keys in locks required to complete mitosis, is masterminded by the columnating resonant field alignment of active sites, through the wave guide function of the genetic material itself. Essentially DNA/RNA and microtubules at the cellular level all choose their attitude and placement for the mitotic ritual by "ringing true" to their nodal array positions in the dominant fields (including uv, ultrasonic, and ELF).

This gives us the background we need to consider the profundity of the helix of the chakra/nervous-plexi system. It isn't only that "...by turning and turning we come round right" but by turning specifically IN TIME to fit the matrix of the crystalline womb. The helix of the glands, acoustically establishes the wratcheted timing of the turns, and thus the baseline of the harmonic cascade implosion called kundalini. The timing of the acoustic standing wave of the heart/ aorta complex phase couples with the natural resonance of the ventrical cavity of the brain.(Bentov.) If the heart is in the right place all else follows. The heart is center of gravity/ center of intention/ and center of electrical tuning.

There is one other very powerful aspect of the function of the helix as wave guide, which can be understood by conceptual analogy. This is the notion of the open space at the center of the ladder rung, as a kind of "spark gap" linear accelerator. Recall that the non-linear nature of the peptide bond at the center of the rungs of the DNA have often been modeled as the agent of stability/instability for aging. Burning out of spark points is a central metaphor of automotives, Tesla Coils, Single phase motors, and curiously... DNA? To understand the significance of the spark gap in electrical function it is useful to consider the rich harmonic complexion of the square wave. Spark gaps are a quantum leap type, catastrophic (in the

mathematical sense), suddenly on then off type, electrical connector which classically produces a square wave (sharp corners) of conductivity. This is profound for the Tesla coil feeder circuit, for the nervous synapse, for the DNA ladder rung center bond, for the beating heart, and for the Corpus Callosum brain hemisphere spark gap.

Understanding a universe made of only one substance is easier when we understand the Fourier Series principle that every shape in the universe can be made of simple sine waves. Whenever a spark fires, the presence of the sharp corners on the waves of conductivity contains in spectral analytic (Fourier Analysis) terms, harmonics high up the ladder of frequencies (theoretically infinite). Infinitely high frequencies can contain infinite information density. (More than a metaphor for mindfulness/whologram).

The principle of the linear accelerator (as used in sub-atomic experiments), is similar to the simple AC induction motor. As the "rotor" or wave packet or sub atomic particle enters the field gap, its arrival is carefully timed or phased to coordinate with a field input, or magnetic kick, which speeds it progressively faster on its way. This principle is also described for use as a magnetic launch pad to launch material from the moon to build space stations. Always in the linear accelerator, the firing field coordinates with a passing packet to catch it just at the right time to speed it up, OR SLOW IT DOWN. In our biological situation with the DNA genetic material, and chakra column, spark gap centers; information is sent and recieved from the higher speed/frequency/information density realms called emotion/gravity/collective mind, via the phase array principle of the linear accelerator. The phase array that is the helix, is the morphology which makes this catch-ball game possible between biology and its attendant choreographing fields.

The function of the liquid crystal flux gradient at the helically arranged glandular centers, firing piezoelectrically, has thus taken on another level of significance: that of the field effect, linear accelerator. This mates the speed of our emotion and thought form, to those of planetary mind, without destructive interference via the ingenius body electric wave guide that IS the human condition.

CLOSING WITH AN OPENING
COLLECTIVE CONSCIOUS, A MIND BEING BORN, INVITES US...

moment-one mind.
Our yearning for the ecstasy of intimate connectedness has flowered with symbolic petals called the physics of consciousness, the yoga and eros of emotion, non-linear gravity energy...the planet and its bloodstream...we.

Most of us have begun to respond to the harmonics of our inner voice and deeper selves. Heeding the gentle tingle of our highest selves we soon soar in our potential for joyful and loving service.

We have made quiet time to hear our inner being, and develop a heart to heart relationship with our deepest self. We often call the source of our inspiration, intuition or collective unconscious, or angel... We do well to consider deeply the matter of the real root and heart of this always amazing and usually delightful pervasive intelligence.

Our destiny is to encounter our embracing collective mind with increasing intimacy and resonance. We awaken to a love life, in which personal love expands to planetary love- through this touching new body of mindfulness. A new body of mind crystalizes among us.
A standing wave form whose exchanges of momentum are perfectly balanced and phased is called a crystalline bond. This way of the crystal is love: the Chryst principle.

We imagine the real function of man who's being is precisely the embodiment of the Christ principle. Our collective imagination weaves in our midst a body of mind who through our assent assumes a seed role as THE CHRIST.

Our planetary mind needing more subtle - cohesive and touching resonance among human emotion nearing synchrony, assembles the evolved Christ man God as a material focal point - seed Crystal, initiating new connectedness,
new mind, new love.
A new hierarchy of order superposed on the liquid crystal material hologram of planet Earth is the birth of a new mind in which the texture of all of our involved wills is dramatically cohered and enriched.
To embrace the possibilities of this new mechanism of telepathic connectedness in one vast and ecstatic at birth, mind... is to invite CHRIST=The CRYSTALLINE way of growth for holographic multidimensional mind... into your heart.
The boundlessness of the degree of freedom we have to make this choice to accept the total presence our new mind, is exactly the boundlessness of our potential to contribute to this great mind when we make the choice to embrace it.
Great centers of gravity grow from a good heart. Join One!

POSTSCRIPT,

SOME FRIENDLY PERSONAL NOTES ABOUT THE AUTHOR...

It is always tempting to say: "well, I was born at a very early age... "

Actually I spent childhood drawing a small wagon to the bookmobile that stopped occasionally in our tiny town: East Eden, (Just East of Eden we like to say). Days at the little wooden school house were puntuated with model rocket flights and getting the garden tractor stuck in the back woods.

High school was pressurizing and eye opening in a severe and all male, Franciscan Priest kind of environment.

Spending summer in Europe before entering the University of Detroit, began a pattern for me which lasted many years, of wandering the globe on a kind of spiritual quest. I looked at the Seine River in Paris through the bottom of a glass bottom boat, and felt the softness of the breezes in Lucerne, Switzerland... and wondered about miracle cures and things of the spirit in Lourdes, at a young and impressionable age.

In Detroit, I studied electrical engineering (which eventually grew into electrical skills which occupy me very productively now). However I went on to get my degree in Psychology. I operated the polygraph at a graduate psych clinic and studied the physiology of emotion, along with electrical models of bodily energetics. I also became fascinated with Jung and the origins of symbol, dream and language, and went on to graduate work on a vision which follows me yet: to describe the common origins of symbol, language, biology, and consciousness in the simple, necessary, geometric elegance of standing waves in a unified field.

At around that time, I began to explore possible ways to serve and learn from industry. I began in the complex many buttoned switchboard/radio phone center of a messy Detroit real estate firm. Later I became an income tax professional with various firms. Then I entered quality control in mettalurgy and crystalography at a steel plant. Finally I was trained in Detroit, New York and Chicago, as a Systems Analyst with IBM. I was particularly involved with their long lines telecommunications network, and embarked on a series of computer networking experiments which continue today.

IBM was before graduate school, the dean at University of Detroit lured me back with scholarship and interest. But it was not long after going back to university, that contacts I had made while in Chicago with IBM, lead me to Claymont, a Fourth Way intentional community in West Virginia. There I spent a summer learning sacred gymnastics, meditation, and various intense exercises designed to unfold the "chakra" petals of intention and emotion in the body.

Later I moved to a spiritual community in Marshfield Mass. ostensibly to pursue graduate independent studies. More significantly I became involved in the rich intellectual resources of the Boston community, particularly MIT. A close friend completing his Phd in physics there helped me to understand the computer graphics at the MIT spacelab. That is where I first worked out the pentagonal nesting geometry for the golden spiral cascade which is the centerpiece of the Star Mother kits and developed our videotape.

I attended numerous international Physics of Consciousness symposia, and began years of travel visiting as many scientists

and researchers in the field of conscousness as possible. I lived in California for a short while, went to two New Age conferences in Florence Italy, then to Findhorn, and later to Egypt and Isreal.. meditated with crackling intensity on the sea of Galilee, felt the piercing superconductive chill in the Kings Chamber of the pyramid, hiked alone looking for lost monasteries of the Great White Brotherhood in the Andes east of lake Titicaca and just generally did what must to carve and mellow the fire burning in my Scorpio spirit.

During all of this I never quite lost touch with home town and family. I'm back here now, busy & prosperous, running the technical side of the family electrical business.

When I came back, the harmonious memories of the rural homestead life of the Gurdjieff community stayed with me, and lead me to acquire this amazing country place. (and thus we come to ...

the story of CRYSTAL HILL FARM

Crystal Hill Farm began late in 1979 when my grandfather, an old horse farmer, helped me locate and dream about a lovely rural property on a high hilltop overlooking Lake Erie in Western New York. I've had visions of new forms of community since studying at the Claymont Gurdjieff estate in West Virginia, and at Findhorn.

I bought the dramatic and peaceful 14 acre estate in 1980, and lots of work and play began. The eight bedroom or so, 100 and some year old farmhouse, features a magnificent view of the surrounding lake plain and distant lake, and is practically surrounded by classic watermelon seed spitting porches. The stairway to the basement is carved in contiguous living bedrock. sheep. Today the beautiful cathedral like loft has undergone conversion to enhance its use as seminar space. Already dozens of barn dances and Sufi spiritual seminars have found their home here, with more planned.

The farm enjoys woods, falls, nature trails, cross country skiing out back; a rock lined "formal" herb garden, raised bed kitchen gardens, and many stages of fruit shrubs and trees. A delightful assortment of tractors and implements permit farming beyond the "gentleman" stage.

The house was very confortable even before substantial redoing and decorating. It enjoys a superb farm kitchen, a walk in cooler, a well equipped toolroom, beautiful piano and new age library.

The electronics room offers computer word processing, graphics, modem, networking, and major database accessing capabilities. The computer also interfaces with the video processing lab. Satellite equipment adds to the horizon of information gathering potential. Shortwave, polygraph, and geometric modeling equipment also array among the tools and toys in the farms electronic womb.

Currently being distributed from here is a videotape on Crystals, Wave geometry and Healing, as well as this marvelous

geometric modeling kit, al la Bucky Fuller, building a sacred polygon nest, called "Star Mother".

From students doing their agricultural summer cooperative work studies from Alfred University, to Full Moon Meditations, life at beautiful Crystal Hill has been full and stimulating. Today a strong core group of friends called the "Network of Light", founded their publicaion here, networks seminars here at the farm and elsewhere, is connected to many local developing community and spiritual groups, and networking activities. The friends share deep interests in areas like bodywork, inner growth, initiation, new physics, etc.

Usually on a weekend there will be at least a music fest, and/or an impromptu supper. Chances are if you stop by, you'll feel more peaceful for having come.. to Crystal Hill.

For information about presentations to your group on "A New Spiritual Phi-sics of Consciousness" you may write to

Crystal Hill Farm
9411 Sandrock
Eden, NY 14057

or I can be reached at my office 716 823 1234.

warmly,

Dan Winter